# Pioneer sound.vision.soul

# Service Manual



ORDER NO. CRT3903

**CD RECEIVER** 

# DEH-P790BT/xn/uc DEH-P8950BT/xn/es

This service manual should be used together with the following manual(s):

Model No.	Order No.	Mech.Module	Remarks
CX-3195	CRT3815	S10.5COMP2	CD Mech. Module : Circuit Descriptions, Mech. Descriptions, Disassembly



#### SAFETY INFORMATION

#### **CAUTION**

This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual.

Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

#### WARNING

This product contains lead in solder and certain electrical parts contain chemicals which are known to the state of California to cause cancer, birth defects or other reproductive harm. Health & Safety Code Section 25249.6 - Proposition 65

#### Safety Precautions for those who Service this Unit.

When checking or adjusting the emitting power of the laser diode exercise caution in order to get safe, reliable results.

#### Caution:

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- 1. During repair or tests, minimum distance of 13 cm from the focus lens must be kept.
- 2. During repair or tests, do not view laser beam for 10 seconds or longer.

#### CAUTION

Danger of explosion if battery is incorrectly replaced.

Replaced only with the same or equivalent type recommended by the manufacture.

Discord used batteries according to the manufacture's instructions.

#### Service Precaution



- 1. You should conform to the regulations governing the product (safety, radio and noise, and other regulations), and should keep the safety during servicing by following the safety instructions described in this manual.
- 2. Before disassembling the unit, be sure to turn off the power. Unplugging and plugging the connectors during power-on mode may damage the ICs inside
- 3. To protect the pickup unit from electrostatic discharge during servicing, take an appropriate treatment (shorting-solder) by referring to "the DISASSEMBLY".
- 4. After replacing the pickup unit, be sure to check the grating.
- 5. Be careful in handling ICs. Some ICs such as MOS type are so fragile that they can be damaged by electrostatic induction.
- 6. When diagnosing a product, take care of its heated portion.

Holder (CND3133)

Bluetooth Unit









DEH-P790BT/XN/UC

#### [Important Check Points for Good Servicing]

In this manual, procedures that must be performed during repairs are marked with the below symbol. Please be sure to confirm and follow these procedures.

#### Product safety



Please conform to product regulations (such as safety and radiation regulations), and maintain a safe servicing environment by following the safety instructions described in this manual.

① Use specified parts for repair.

Use genuine parts. Be sure to use important parts for safety.

2 Do not perform modifications without proper instructions.

Please follow the specified safety methods when modification(addition/change of parts) is required due to interferences such as radio/TV interference and foreign noise.

3 Make sure the soldering of repaired locations is properly performed.

When you solder while repairing, please be sure that there are no cold solder and other debris. Soldering should be finished with the proper quantity. (Refer to the example)

4 Make sure the screws are tightly fastened.

Please be sure that all screws are fastened, and that there are no loose screws.

⑤ Make sure each connectors are correctly inserted.

Please be sure that all connectors are inserted, and that there are no imperfect insertion.

6 Make sure the wiring cables are set to their original state.

Please replace the wiring and cables to the original state after repairs. In addition, be sure that there are no pinched wires, etc.

Make sure screws and soldering scraps do not remain inside the product.

Please check that neither solder debris nor screws remain inside the product.

There should be no semi-broken wires, scratches, melting, etc. on the coating of the power cord.

Damaged power cords may lead to fire accidents, so please be sure that there are no damages. If you find a damaged power cord, please exchange it with a suitable one.

(9) There should be no spark traces or similar marks on the power plug.

When spark traces or similar marks are found on the power supply plug, please check the connection and advise on secure connections and suitable usage. Please exchange the power cord if necessary.

10 Safe environment should be secured during servicing.

When you perform repairs, please pay attention to static electricity, furniture, household articles, etc. in order to prevent injuries. Please pay attention to your surroundings and repair safely.

#### 2. Adjustments



To keep the original performance of the products, optimum adjustments and confirmation of characteristics within specification. Adjustments should be performed in accordance with the procedures/instructions described in this manual.

#### 3. Lubricants, Glues, and Replacement parts



Use grease and adhesives that are equal to the specified substance. Make sure the proper amount is applied.

#### 4. Cleaning



For parts that require cleaning, such as optical pickups, tape deck heads, lenses and mirrors used in projection monitors, proper cleaning should be performed to restore their performances.

#### 5. Shipping mode and Shipping screws



To protect products from damages or failures during transit, the shipping mode should be set or the shipping screws should be installed before shipment. Please be sure to follow this method especially if it is specified in this manual.

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#### ● DEH-P790BT/XN/UC

General Power source	14.4 V DC (10.8 V to 15.1 V allowable)
Grounding system Max. current consumption	,
Backup current  Dimensions (W × H × D):  DIN	
Chassis	$1.178 \times 50 \times 165 \text{ mm}$ (7 × 2 × 6-1/2 in.)
Nose	$1.188 \times 58 \times 16 \text{ mm}$ (7-3/8 × 2-1/4 × 5/8 in.)
D	(, s, s , , = 1, , , , , s, s, , , , , , , , , , , ,
Chassis	$1.178 \times 50 \times 165 \text{ mm}$ (7 × 2 × 6-1/2 in.)
Nose	$1.170 \times 45 \times 16 \text{ mm}$ (6-3/4 × 1-3/4 × 5/8 in.)
Weight	
Audio	
Maximum power output	50 W × 4
	$50 \text{ W} \times 2/4 \Omega + 70 \text{ W} \times 1/2$
	$\Omega$ (for subwoofer)
Continuous power output.	22 W × 4 (50 Hz to 15 000
	Hz, 5% THD, 4 $\Omega$ load, both
	channels driven)
Load impedance	4 $\Omega$ to 8 $\Omega$ $ imes$ 4
	$4 \Omega$ to $8 \Omega \times 2 + 2 \Omega \times 1$
Preout max output level/ou	tput impedance
Equalizer (7-Band Graphic	•
Frequency	50/125/315/800/2k/5k/12.5k Hz
Gain	$\pm 12~\mathrm{dB}$
Loudness contour:	
Low	+3.5 dB (100 Hz), +3 dB (10 kHz)
Mid	+10 dB (100 Hz), +6.5 dB
LD: 1	(10 kHz)
High	+11 dB (100 Hz), +11 dB (10 kHz)
	(volume: –30 dB)
HPF:	
Frequency	50/63/80/100/125 Hz

CD player
System Compact disc audio system
Usable discsCompact disc
Signal format:
Sampling frequency 44.1 kHz
Number of quantization bits
16; linear
Frequency characteristics 5 Hz to 20 000 Hz (±1 dB)
Signal-to-noise ratio 94 dB (1 kHz) (IHF-A net- work)
Dynamic range92 dB (1 kHz)
Number of channels 2 (stereo)
MP3 decoding format MPEG-1 & 2 Audio Layer 3
WMA decoding format Ver. 7, 7.1, 8, 9, 10 (2ch
audio)
(Windows Media Player)
AAC decoding format MPEG-4 AAC (iTunes® en-
coded only)
WAV signal formatLinear PCM & MS ADPCM
FM tuner
Frequency range87.9 MHz to 107.9 MHz

FM tuner	
Frequency range	87.9 MHz to 107.9 MHz
Usable sensitivity	8 dBf (0.7 $\mu$ V/75 $\Omega$ , mono,
	S/N: 30 dB)
Signal-to-noise ratio	75 dB (IHF-A network)
Distortion	0.3 % (at 65 dBf, 1 kHz,
	stereo)
	0.1 % (at 65 dBf, 1 kHz,
	mono)
Frequency response	30 Hz to 15 000 Hz (±3 dB)
Stereo separation	45 dB (at 65 dBf, 1 kHz)

Aivi tuner	
Frequency range	530 kHz to 1710 kHz (10
	kHz)
Usable sensitivity	18 μV (S/N: 20 dB)
Signal-to-noise ratio	65 dB (IHF-A network)

## **Bluetooth**

Version ...... Bluetooth 1.2 certified



Specifications and the design are subject to possible modifications without notice due to improvements.

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Subwoofer (mono):

Bass boost:

Slope .....-12 dB/oct

Slope .....-18 dB/oct Gain .....+6 dB to -24 dB Phase ......Normal/Reverse

Gain ......+12 dB to 0 dB

Frequency ...... 50/63/80/100/125 Hz

#### ● DEH-P7900BT/XN/UC

DOWNER		
Power source		
Max. cu	rrent consumption	
	currentions (W $\times$ H $\times$ D):	··· 5 mA or less
DIN		
	Chassis	$178 \times 50 \times 165 \text{ mm}$ $(7 \times 2 \times 6-1/2 \text{ in.})$
	Nose	$188 \times 58 \times 16 \text{ mm}$ (7-3/8 × 2-1/4 × 5/8 in.)
D		
	Chassis	$178 \times 50 \times 165 \text{ mm}$ (7 × 2 × 6-1/2 in.)
	Nose	170 $\times$ 45 $\times$ 16 mm (6-3/4 $\times$ 1-3/4 $\times$ 5/8 in.)
Weight		1.68 kg (3.7 lbs)
Audio		FO.W. \ 4
iviaximt	ım power output	50 VV $ imes$ 4 $ imes$ 50 W $ imes$ 2/4 $\Omega$ $+$ 70 W $ imes$ 1,
		$\Omega$ (for subwoofer)
Continu	ous power output	22 W × 4 (50 Hz to 15 000
Continu	odo power odipat	Hz, 5% THD, 4 $\Omega$ load, bot
		channels driven)
Load im	pedance	4 $\Omega$ to 8 $\Omega$ $ imes$ 4
		$4\Omega$ to $8\Omega \times 2 + 2\Omega \times 1$
	max output level/ou	tput impedance
		itput impedance 4 V/100Ω
Equalize	er (7-Band Graphic	itput impedance 4 V/100 <b>Ω</b> Equalizer):
Equalize	er (7-Band Graphic	itput impedance 4 V/100Ω
Equalize Fre	er (7-Band Graphic	itput impedance 4 V/100Ω Equalizer): 50/125/315/800/2k/5k/12.5k Hz
Equalize Fre Gai Loudne	er (7-Band Graphic quencyn	itput impedance 4 V/100 <b>Ω</b> Equalizer): 50/125/315/800/2k/5k/12.5k Hz ±12 dB
Equalize Fre Gai Loudne	er (7-Band Graphic quencyn	itput impedance 4 V/100 <b>Ω</b> Equalizer): 50/125/315/800/2k/5k/12.5k Hz ±12 dB
Equalize Fre Gai Loudnes Lov Mic	er (7-Band Graphic quency nss contour: v	utput impedance 4 V/100Ω Equalizer): 50/125/315/800/2k/5k/12.5k Hz ±12 dB +3.5 dB (100 Hz), +3 dB ( kHz) +10 dB (100 Hz), +6.5 dB (10 kHz)
Equalize Fre Gai Loudnes Lov Mic	er (7-Band Graphic quency nss contour: v	itput impedance 4 V/100Ω Equalizer): 50/125/315/800/2k/5k/12.5l Hz ±12 dB +3.5 dB (100 Hz), +3 dB (kHz) +10 dB (100 Hz), +6.5 dB
Equalize Fre Gai Loudnes Lov Mic	er (7-Band Graphic quency nss contour: v	Itput impedance 4 V/100Ω Equalizer): 50/125/315/800/2k/5k/12.5k Hz ±12 dB +3.5 dB (100 Hz), +3 dB (kHz) +10 dB (100 Hz), +6.5 dB (10 kHz) +11 dB (100 Hz), +11 dB
Equalize Fre Gai Loudnes Lov Mic Hig	r (7-Band Graphic quencynss contour:	ttput impedance 4 V/100Ω Equalizer): 50/125/315/800/2k/5k/12.5k Hz ±12 dB +3.5 dB (100 Hz), +3 dB (kHz) +10 dB (100 Hz), +6.5 dB (10 kHz) +11 dB (100 Hz), +11 dB (10 kHz) (volume: -30 dB)
Equalize Fre Gai Loudnes Lov Mid Hig	er (7-Band Graphic quencyss contour:	Itput impedance 4 V/100Ω Equalizer): 50/125/315/800/2k/5k/12.5k Hz ±12 dB +3.5 dB (100 Hz), +3 dB (kHz) +10 dB (100 Hz), +6.5 dB (10 kHz) +11 dB (100 Hz), +11 dB (10 kHz) (volume: -30 dB) 50/63/80/100/125 Hz
Equalize Fre Gai Loudnes Lov Mic Hig	er (7-Band Graphic quencyss contour:  y  d  quency	Itput impedance 4 V/100Ω Equalizer): 50/125/315/800/2k/5k/12.5k Hz ±12 dB +3.5 dB (100 Hz), +3 dB (kHz) +10 dB (100 Hz), +6.5 dB (10 kHz) +11 dB (100 Hz), +11 dB (10 kHz) (volume: -30 dB) 50/63/80/100/125 Hz
Equalize Fre Gai Loudnes Lov Mid Hig HPF: Fre Slo Subwood	er (7-Band Graphic quencyss contour:  y  quencyd  quencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquencyquency	Itput impedance 4 V/100Ω Equalizer): 50/125/315/800/2k/5k/12.5k Hz ±12 dB +3.5 dB (100 Hz), +3 dB (kHz) +10 dB (100 Hz), +6.5 dB (10 kHz) +11 dB (100 Hz), +11 dB (10 kHz) (volume: -30 dB) 50/63/80/100/125 Hz12 dB/oct
Equalize Fre  Gai Loudnes Lov  Mid  Hig  HPF: Fre Slo Subwood	r (7-Band Graphic quencyss contour:  yd  quencyd  quency	Itput impedance 4 V/100Ω Equalizer): 50/125/315/800/2k/5k/12.5k Hz ±12 dB +3.5 dB (100 Hz), +3 dB (kHz) +10 dB (100 Hz), +6.5 dB (10 kHz) +11 dB (100 Hz), +11 dB (10 kHz) (volume: -30 dB) 50/63/80/100/125 Hz12 dB/oct 50/63/80/100/125 Hz
Equalize Fre  Gai Loudnes Lov  Mid  Hig  HPF: Fre Slo Subwood Fre	r (7-Band Graphic quency	Itput impedance 4 V/100Ω Equalizer): 50/125/315/800/2k/5k/12.5l Hz ±12 dB +3.5 dB (100 Hz), +3 dB ( kHz) +10 dB (100 Hz), +6.5 dB (10 kHz) +11 dB (100 Hz), +11 dB (10 kHz) (volume: -30 dB) 50/63/80/100/125 Hz12 dB/oct 50/63/80/100/125 Hz18 dB/oct
Equalize Fre Gai Loudnes Lov Mid Hig HPF: Fre Slo Subwood Fre Slo Gai	quency  quency  quency  quency  quency  pe  quency  quency  pe  quency  quency  quency	Itput impedance 4 V/100Ω Equalizer): 50/125/315/800/2k/5k/12.5l Hz ±12 dB +3.5 dB (100 Hz), +3 dB (kHz) +10 dB (100 Hz), +6.5 dB (10 kHz) +11 dB (100 Hz), +11 dB (10 kHz) (volume: -30 dB) 50/63/80/100/125 Hz12 dB/oct 50/63/80/100/125 Hz18 dB/oct +6 dB to -24 dB
Equalize Fre Gai Loudnes Lov Mid Hig HPF: Fre Slo Subwood Fre Slo Gai	r (7-Band Graphic quency	Itput impedance 4 V/100Ω Equalizer): 50/125/315/800/2k/5k/12.5l Hz ±12 dB +3.5 dB (100 Hz), +3 dB (kHz) +10 dB (100 Hz), +6.5 dB (10 kHz) +11 dB (100 Hz), +11 dB (10 kHz) (volume: -30 dB) 50/63/80/100/125 Hz12 dB/oct 50/63/80/100/125 Hz18 dB/oct +6 dB to -24 dB

# **CD player** System .....

CD player	
SystemCo	ompact disc audio system
Usable discsCo	ompact disc
Signal format:	
Sampling frequency 44	.1 kHz
Number of quantization bi	its
16	i; linear
Frequency characteristics 5 H	Hz to 20 000 Hz (±1 dB)
Signal-to-noise ratio94	dB (1 kHz) (IHF-A net-
WC	ork)
Dynamic range92	
Number of channels2 (	(stereo)
MP3 decoding formatMF	PEG-1 & 2 Audio Layer 3
WMA decoding format Ve	er. 7, 7.1, 8, 9, 10 (2ch
au	ıdio)
(W	/indows Media Player)
AAC decoding formatMI	
	ded only)
WAV signal formatLir	near PCM & MS ADPCM

#### **FM** tuner

Frequency range	87.9 MHz to 107.9 MHz
Usable sensitivity	8 dBf (0.7 $\mu$ V/75 $\Omega$ , mono,
	S/N: 30 dB)
Signal-to-noise ratio	75 dB (IHF-A network)
Distortion	0.3 % (at 65 dBf, 1 kHz,
	stereo)
	0.1 % (at 65 dBf, 1 kHz,
	mono)
Frequency response	30 Hz to 15 000 Hz ( $\pm 3$ dB)
Stereo separation	45 dB (at 65 dBf, 1 kHz)

#### **AM** tuner

Frequency range 530 kHz to 1710 kHz (10
kHz)
Usable sensitivity 18 $\mu$ V (S/N: 20 dB)
Signal-to-noise ratio65 dB (IHF-A network)

#### **Bluetooth**

Version ...... Bluetooth 1.2 certified



Specifications and the design are subject to possible modifications without notice due to improvements.

● DEH-P8950B1/XN/	ES		
General		Signal format:	
	14.4 V DC (10.8 V to 15.1 V	Sampling frequency	44.1 kHz
	allowable)	Number of quantization	on bits
Grounding system	•		16; linear
Max. current consumption		Frequency characteristics	5 Hz to 20 000 Hz (±1 dB)
		Signal-to-noise ratio	94 dB (1 kHz) (IEC-A net-
Backup current		0	work)
Dimensions (W $\times$ H $\times$ D)		Dynamic range	92 dB (1 kHz)
DIN DIN	•	Number of channels	
	178 × 50 × 165 mm		MPEG-1 & 2 Audio Layer 3
	178 × 58 × 16 mm	WMA decoding format	
D Nose	100 × 30 × 10 111111	Time addeding format iiiii	audio)
	178 × 50 × 165 mm		(Windows Media Player)
	178 × 50 × 165 mm	AAC decoding format	MPEG-4 AAC (iTunes® en-
		And decoding format	coded only)
Weight	1.68 kg	MAV signal format	Linear PCM & MS ADPCM
Audio		VVAV Signal format	Linear i Civi & Ivio ADI Civi
Audio	EQ.144 4	FM tuner	
Maximum power output		Frequency range	87 5 MHz to 108 0 MHz
	$50 \text{ W} \times 2/4 \Omega + 70 \text{ W} \times 1/2$		8 dBf (0.7 $\mu$ V/75 $\Omega$ , mono,
	$\Omega$ (for subwoofer)	Osable selisitivity	8 dB1 (0.7 $\mu$ V) 75 <b>22</b> , MoNo, S/N: 30 dB)
Continuous power output	22 W $ imes$ 4 (50 Hz to 15 000	Cianal ta maioa matia	•
	Hz, 5% THD, 4 $\Omega$ load, both	Signal-to-noise ratio	
	channels driven)	Distortion	
Load impedance	$4 \Omega$ to $8 \Omega \times 4$		stereo)
	$4\Omega$ to $8\Omega \times 2 + 2\Omega \times 1$		0.1 % (at 65 dBf, 1 kHz,
Preout max output level/o	utput impedance	_	mono)
	4 V/100 <b>Ω</b>		30 Hz to 15 000 Hz (±3 dB)
Equalizer (7-Band Graphic	: Equalizer):	Stereo separation	45 dB (at 65 dBt, 1 kHz)
Frequency	50/125/315/800/2k/5k/12.5k	A B Ø 1	
	Hz	AM tuner	
Gain	±12 dB	Frequency range	531 kHz to 1 602 kHz (9 kHz)
Loudness contour:			530 kHz to 1 640 kHz (10
Low	+3.5 dB (100 Hz), +3 dB (10		kHz)
	kHz)	Usable sensitivity	18 µV (S/N: 20 dB)
Mid	+10 dB (100 Hz), +6.5 dB	Signal-to-noise ratio	65 dB (IEC-A network)
	+11 dB (100 Hz), +11 dB	Bluetooth	
	(10 kHz)	Version	Bluetooth 1.2 certified
	(volume: –30 dB)	Output power	+4 dBm Max.
HPF:	(volume: 55 dB)		(Power class 2)
	50/63/80/100/125 Hz		
Slope		Infrared remote conf	trol
Subwoofer (mono):	– 12 db/oct	Wavelength	940 nm ±50 nm
	50/63/80/100/125 Hz	o .	typ; 12 mw/sr per Infrared
Slope			LED
Gain		<b>M</b> N = 1 =	
Phase	Normal/Reverse	<b>Mote</b>	
Bass boost:	140 40 40 40	Specifications and the	design are subject to pos-
Gain	+ 12 aB to 0 aB		
CD relevens		sible modifications with	iout notice aue to im-
CD player		provements.	
Systom	Compact disc audio eyetom		

DEH-P790BT/XN/UC

System ...... Compact disc audio system

Usable discs ......Compact disc

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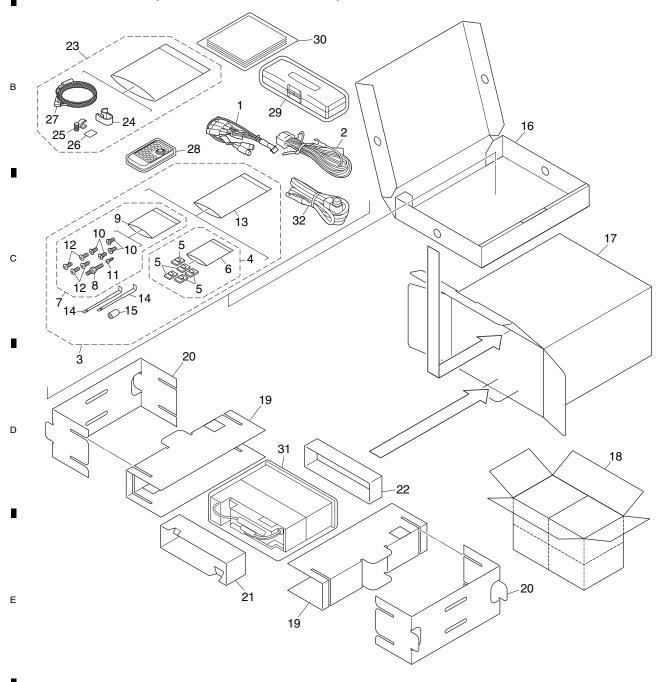
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# 2. EXPLODED VIEWS AND PARTS LIST

NOTES: • Parts marked by "\*" are generally unavailable because they are not in our Master Spare Parts List.

- The  $\triangle$  mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- Screw adjacent to  $\nabla$  mark on the product are used for disassembly.
- For the applying amount of lubricants or glue, follow the instructions in this manual. (In the case of no amount instructions, apply as you think it appropriate.)

#### 2.1 PACKING(DEH-P790BT/XN/UC)

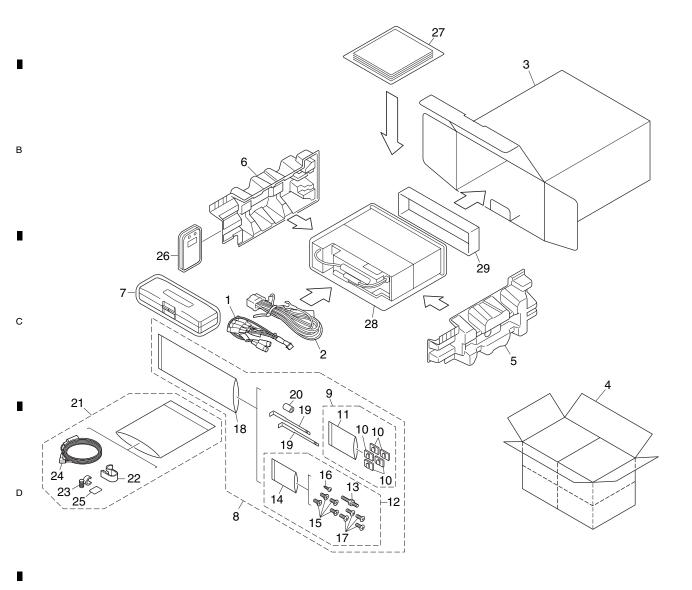


DEH-P790BT/XN/UC

# DACKING(DEH-P790BT/XN/UC) SECTION PARTS LIST

<u>No.</u>	<b>Description</b>	Part No.
1	Cord Assy	CDE8284
2	Cord Assy	CDP1009
3	Accessory Assy	CEA7537
4	Cord Clamper Assy	CEA4636
5	Clamper	CNV8262
6	Polyethylene Bag	E36-615
7	Screw Assy	CEA5322
8	Screw	CBA1650
9	Polyethylene Bag	CEG-127
10	Screw	CRZ50P090FTC
11	Screw	JPZ20P060FTB
12	Screw	TRZ50P080FTC
13	Polyethylene Bag	CEG1160
14	Handle	CND3707
15	Bush	CNV3930
16	Sub Unit Box	CHG5195
17		CHG6114
18	Contain Box	CHL6114
19	Protector	CHP2797
20	Protector	CHP2798
		CHP2812
		CHP3333
		CPM1064
24	Clip Holder	CZN5471
25	Microphone Holder	CZN5472
26	Cushion	CZN5473
		CZX5059
		CXC7555
		XXA7417
	•	CRD4204
JU 1		0.15 120 1
	\g,	
30-2	Installation Manual	CRD4209
30-3		CRP1310
		CRY1070
	•	XRP7002
30-6	Polyethylene Bag	CEG1116
30-7	Caution Card	CRP1359
		0001000
31	Polyethylene Bag	CEG1368
31 32	Polyethylene Bag Cord Assy	XDP7005
	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30-1 30-2 30-3 30-4 30-5 30-6	1 Cord Assy 2 Cord Assy 3 Accessory Assy 4 Cord Clamper Assy 5 Clamper 6 Polyethylene Bag 7 Screw Assy 8 Screw 9 Polyethylene Bag 10 Screw 11 Screw 12 Screw 13 Polyethylene Bag 14 Handle 15 Bush 16 Sub Unit Box 17 Unit Box 18 Contain Box 19 Protector 20 Protector 21 Protector 22 Protector 23 Microphone Assy 24 Clip Holder 25 Microphone Holder 26 Cushion 27 Microphone 28 Remote Control Unit 29 Case Assy 30-1 Owner's Manual (English, French) 30-2 Installation Manual (English, French) 30-3 Caution Card 30-4 Warranty Card 30-5 Caution Card

# 2.2 PACKING(DEH-P7900/BT/XN/UC, DEH-P8950BT/XN/ES)



DEH-P790BT/XN/UC

#### (1) PACKING(DEH-P7900BT/XN/UC, DEH-P8950BT/XN/ES) SECTION PARTS LIST

Mark N	<u>o.</u>	<b>Description</b>	Part No.	<u>Mar</u>	<u>k No.</u>	<u>Description</u>	Part No.
1	1	Cord Assy	CDE8284		19	Handle	CND3707
2	2	Cord Assy	CDP1009		20	Bush	CNV3930
3	3	Unit box	See Contrast table(2)				
4	4	Contain box	See Contrast table(2)		21	Microphone Assy	CPM1064
Ę	5	Protector L	CHP3373		22	Clip Holder	CZN5471
					23	Microphone Holder	CZN5472
6	3	Protector R	CHP3374	*	24	Microphone	CZX5059
7	7	Case Assy	XXA7417		25	Cushion	CZN5473
* 8	3	Accessory Assy	See Contrast table(2)				
9	9	Cord Clamper Assy	CEA4636		26	Remote Control Unit	CXC7555
* 1	0	Clamper	CNV8262		27-1	Owner's manual	See Contrast table(2)
					27-2	Owner's Manual	See Contrast table(2)
* 1	1	Polyethylene Bag	E36-615		27-3	Installation Manual	See Contrast table(2)
1	2	Screw Assy	See Contrast table(2)		27-4	Caution Card	CRP1310
1	3	Screw	CBA1650				
* 1	4	Polyethylene Bag	CEG-127	*	27-5	Warranty Card	See Contrast table(2)
1	5	Screw	CRZ50P090FTC	*	27-6	Caution Card	XRP7002
					27-7	Polyethylene Bag	CEG1116
1	6	Screw	See Contrast table(2)	*	27-8	Caution Card	See Contrast table(2)
1	7	Screw	TRZ50P080FTC		28	Polyethylene Bag	See Contrast table(2)
* 1	8	Polyethylene Bag	CEG1160		29	Protector	CHP3375

#### (2) CONTRAST TABLE

DÉH-P7900BT/XN/UC and DEH-P8950BT/XN/ES are constructed the same except for the following:

Mark	No.	Description	DEH-P7900BT/XN/UC	DEH-P8950BT/XN/ES
	3	Unit box	CHG6111	CHG6110
	4	Contain box	CHL6111	CHL6110
*	8	Accessory Assy	CEA7537	CEA7536
	12	Screw Assy	CEA5322	CEA3849
	16	Screw	JPZ20P060FTB	Not used
	27-1	Owner's Manual	CRD4205	CRD4206
	27-2	Owner's Manual	Not used	CRD4207
	27-3	Installation Manual	CRD4210	CRD4211
*	27-5	Warranty Card	CRY1246	Not used
*	27-8	Caution Card	CRP1358	Not used
	28	Polyethylene Bag	CEG1173	CEG-162

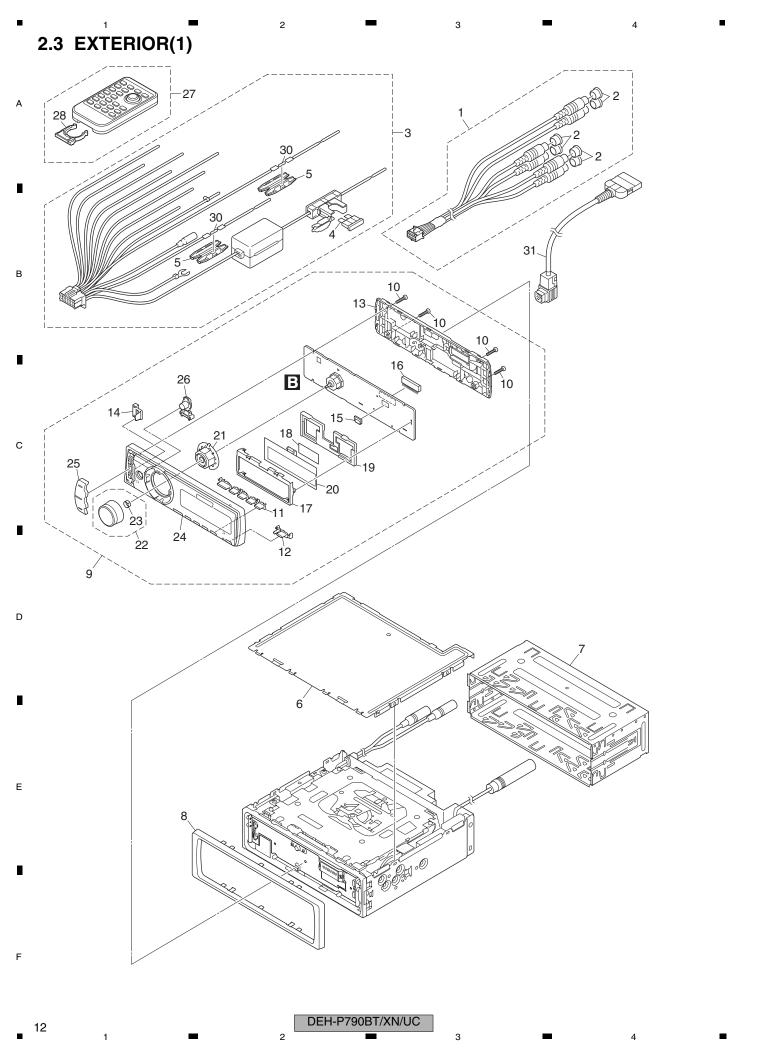
#### **Owner's Manual, Installation Manual**

Part No.	Language			
CRD4205	English, French			
CRD4206	English, Spanish, Portuguese(B)			
CRD4207	Arabic, Traditional Chinese			
CRD4210	English, French			
CRD4211	English, Spanish, Portuguese(B), Arabic, Traditional Chinese			

DEH-P790BT/XN/UC

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#### (1) EXTERIOR(1) SECTION PARTS LIST

<u>Mark</u>	<u>No.</u>	<u>Description</u>	Part No.	Mark No.	<u>Description</u>	Part No.
	1	Cord Assy	CDE8284	17	Holder	CND3781
	2	Cap	CNV6727	18	Double Sided Tape	CNM8673
	3	Cord Assy	CDP1009	19	Holder	CNV9435
<u> </u>	4	Fuse(10 A)	CEK1136	20	OEL Unit	MXS8260
	5	Cap	CNS1472			
				21	Holder	CNV9676
	6	Case	CNB3447	22	Knob Unit	CXC7271
	7	Holder	CND3598	23	Spring	XBL7005
	8	Panel	See Contrast table(2)	24	Sub Grille Assy	See Contrast table(2)
	9	Detach Grille Assy	See Contrast table(2)	25	Button Unit(SRC/BAND)	CXC7558
	10	Screw	BPZ20P080FTB			
				26	Button Unit(PHONE)	CXC7559
	11	Button(LIST/ATT/EQ/DISP/CLC	OCK)CAI1154	27	Remote Control Unit	CXC7555
	12	Button(EJECT)	CAI1155	28	Cover	CZN5357
	13	Cover	CNS8491	29	••••	
	14	Lighting Conductor	CNV9509	30	Resistor	RS1/2PMF102J
	15	Connector(CN1961)	CKS5545			
				31	Cord Assy	See Contrast table(2)
	16	Connector(CN1801)	CKS5662			

#### (2) CONTRAST TABLE

DEH-P790BT/XN/UC, DEH-P7900BT/XN/UC and DEH-P8950BT/XN/ES are constructed the same except for the following:

Mark	No.	Description	DEH-P790BT/XN/UC	DEH-P7900BT/XN/UC	DEH-P8950BT/XN/ES
	8	Panel	CNS8914	CNS8915	CNS8915
	9	Detach Grille Assy	CXC7496	CXC7495	CXC7497
	24	Sub Grille Assy	CXC7501	CXC7500	CXC7502
	31	Cord Assy	XDP7005	Not Used	Not Used

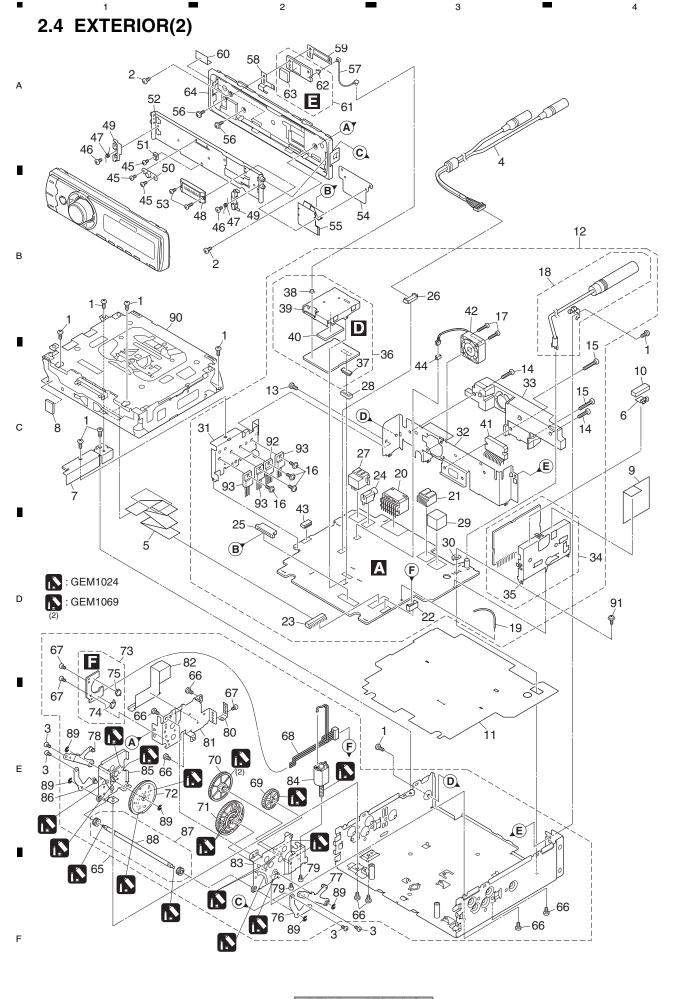
DEH-P790BT/XN/UC

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DEH-P790BT/XN/UC

#### (1) EXTERIOR(2) SECTION PARTS LIST

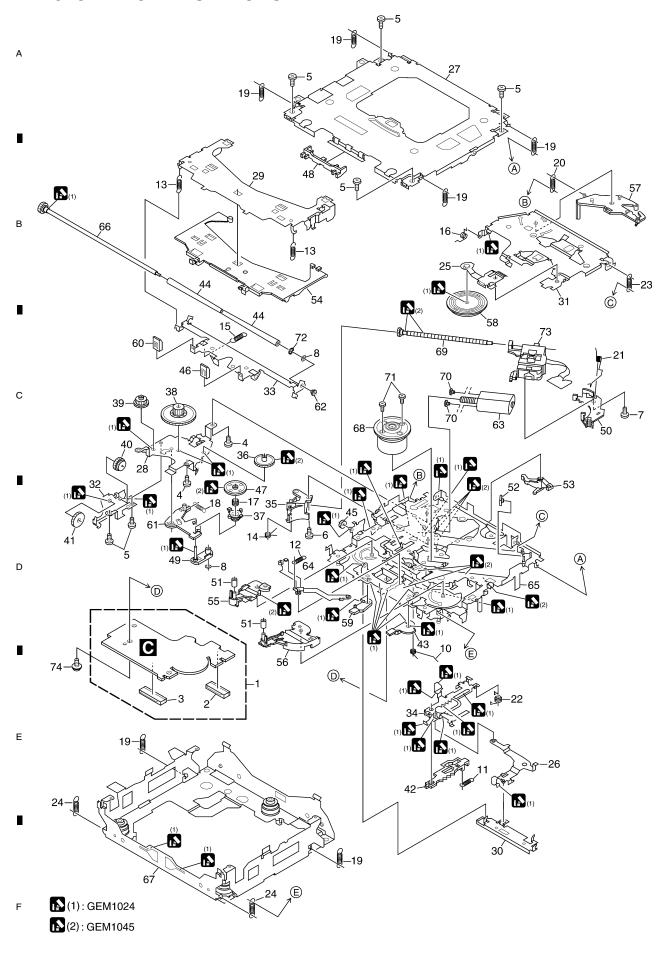
Mark No.	Description	Part No.	Mark No.	<u>Description</u>	Part No.	
		BSZ26P060FTC	48	Connector	CKS5273	
1	Screw (MO 6 v. 4)		49	Arm	CNV6962	
2	Screw(M2.6 x 4)	CBA1828	50	Guide	CNV6967	Α
3	Screw(M2 x 2.5)	CBA1924	00	Guide	01440007	
4	Cord Assy	CDE8051	51	Guide	CNV8048	
5	Cable	CDE8388	52	Case Unit	CXC5695	
•	Foods Block	ONID0474	53	Screw(M2 x 3.5)	XBA7002	
6	Earth Plate	CND2171	54	Holder	XNC7019	
7	Holder	CND3606	55	Flexible PCB	XNP7026	
8	Insulator	CNM7682	33	TIEXIDIE TOD	XIVI 7020	-
9	Insulator	CNM8790	56	Screw(M2 x 3.5)	CBA2030	
10	Cushion	CNM9126	57	Cord Assy	CDE8474	
		011140000	58	Earth Plate	CND3138	
11	Insulator	CNM9936	59	Holder	CND3138 CND3139	
12	Tuner Amp Unit	See Contrast table(2)	60	Insulator	CND3139 CNN1499	-
13	Screw	BMZ26P040FTC	60	Ilisulator	GNN 1499	В
14	Screw	BMZ26P100FTC	61	Antenna Unit	CMNIOCOA	
15	Screw	BMZ26P180FTC	61		CWN2634	
	_		62	Connector(ANT1102)	CKS5749	
16	Screw	BSZ26P060FTC	63	BT Antenna(ANT1101)	CWX3132	
17	Screw(M2.6 x 14)	CBA1632	64	Panel Unit	See Contrast table(2)	
18	Antenna Cable(CN401)	CDH1336	65	Drive Unit	CXC8074	
19	Clamper	CEF1050	00	0	DM700D040ETO	
20	Plug(CN981)	CKM1278	66	Screw (M2 - 2)	BMZ26P040FTC	
			67	Screw(M2 x 2)	CBA1871	
21	Connector(CN301)	CKM1389	68	Cord	CDE7392	
22	Plug(CN881)	CKS-786	69	Gear	CNV7752	
23	Connector(CN701)	CKS3829	70	Gear	CNV7753	С
24	Connector(CN151)	See Contrast table(2)			010/7754	
25	Connector(CN801)	CKS4811	71	Gear	CNV7754	
			72	Gear	CNV7755	
26	Connector(CN181)	CKS4980	73	Switch Unit	CWS1389	
27	Connector(CN101)	CKS5271	74	Switch	CSN1051	
28	Connector(CN521)	CKS5321	75	Spring Switch	CSN1052	
29	Connector(CN561)	CKS5683				
30	Holder(CN983)	CNC5399	76	Arm Unit	CXC2199	
			77	Arm Unit	CXC6623	
31	Holder	CND3133	78	Arm Unit	CXC6624	
32	Holder	See Contrast table(2)	79	Screw	JFZ20P020FTC	
33	Heat Sink	CNR1904	80	Spring	XBL7003	D
34	FM/AM Tuner Unit	CWE1952				
35	Holder	CND1054	81	Holder	XNC7017	
			82	Insulator	XNM7119	
36	Bluetooth Unit	CWN2339	83	Holder Unit	XXA7399	
37	Connector(CN76)	CKS5320	84	Motor Unit	XXA7400	
38	Connector(CN1)	CKS5749	85	Holder Unit	XXA7401	
39	Shield	CND3134				_
40	Sheet	CNM9598	86	Arm Unit	XXA7403	
			87	Gear Unit	XXA7424	
41	IC(IC351)	PAL007C	88	Shaft	XLA7001	
42	Fan Motor	CXM1288	89	Washer	YE15FTC	
43	7P FFC Connector (CN522)	VKN1299	90	CD Mechanism Module(S10.5)	CXK5763	Е
44	ZH Connector 2P (CN891)	VKN1928				_
45	Screw(M2 x 2)	CBA1871	91	Screw	ISS26P055FTC	
			92	IC(IC911)	NJM2388F84	
46	Screw(M2 x 2)	CBA1935	93	Transistor(Q453,Q751,Q901)	2SD2396	
47	Spring	CBH2530				

**(2) CONTRAST TABLE**DEH-P790BT/XN/UC, DEH-P7900BT/XN/UC and DEH-P8950BT/XN/ES are constructed the same except for the following:

Mark	No.	Description	DEH-P790BT/XN/UC	DEH-P7900BT/XN/UC	DEH-P8950BT/XN/ES
	12	Tuner Amp Unit	CWN2343	CWN2343	CWN2344
	24	Connector(CN151)	CKS4124	CKS4124	Not used
	32	Holder	CND3834	CND3834	CND3835
	64	Panel Unit	CXC6608	CXC5696	CXC5696

DEH-P790BT/XN/UC

### 2.5 CD MECHANISM MODULE



DEH-P790BT/XN/UC

CD MECHANISM MODULE SECTION PARTS LIST							
Mark No.	<u>Description</u>	Part No.	Mark No.	<u>Description</u>	Part No.		
1	CD Core Unit(S10.5COMP2)	CWX3514	50	Rack	CNV8342		
2	Connector(CN101)	CKS4182					
3	Connector(CN701)	CKS4808	51	Roller	CNV8343		
4	Screw	BMZ20P025FTC	52	Holder	CNV8344		
5	Screw	BSZ20P040FTC	53	Arm	CNV8345		
			54	Guide	CNV8347		
6	Screw(M2 x 3)	CBA1511	55	Arm	CNV8348		
7	Screw(M2 x 4)	CBA1835					
8	Washer	CBF1038	56	Arm	CNV8349		
9	•••••		57	Arm	CNV8350		
10	Spring	CBH2609	58	Clamper	CNV8365		
			59	Arm	CNV8386		
11	Spring	CBH2612	60	Guide	CNV8396		
12	Spring	CBH2614					
13	Spring	CBH2616	61	Arm	CNV8413		
14	Spring	CBH2617	62	Collar	CNV8938		
15	Spring	CBH2620	63	Motor Unit(M2)	CXC4026		
			64	Arm Unit	CXC4027		
16	Spring	CBH2855	65	Chassis Unit	CXC4028		
17	Spring	CBH2937					
18	Spring	CBH2735	66	Gear Unit	CXC4029		
19	Spring	CBH2854	67	Frame Unit	CXC4031		
20	Spring	CBH2642	68	Motor Unit(M1)	CXC7134		
			69	Screw Unit	CXC6359		
21	Spring	CBH2856	70	Screw	JFZ20P020FTC		
22	Spring	CBH2857					
23	Spring	CBH2860	71	Screw	JGZ17P022FTC		
24	Spring	CBH2861	72	Washer	YE20FTC		
25	Spring	CBL1686	73	Pickup Unit(P10.5)(Service)	CXX1942		
			74	Screw	IMS26P030FTC		
26	Arm	CND1909					
27	Frame	CND2582					
28	Bracket	CND2583					
29	Arm	CND2584					
30	Lever	CND2585					
31	Arm	CND2586					
32	Bracket	CND2587					
33	Arm	CND2588					
34	Lever	CND2589					
35	Holder	CNV7201					
36	Gear	CNV7207					
37	Gear	CNV7208					
38	Gear	CNV7209					
39	Gear	CNV7210					
40	Gear	CNV7211					
41	Gear	CNV7212					
42	Rack	CNV7214					
43	Arm	CNV7216					
44	Roller	CNV7218					
45	Gear	CNV7219					
46	Guide	CNV7361					
47	Gear	CNV7595					
48	Guide	CNV7799					
49	Arm	CNV7805					

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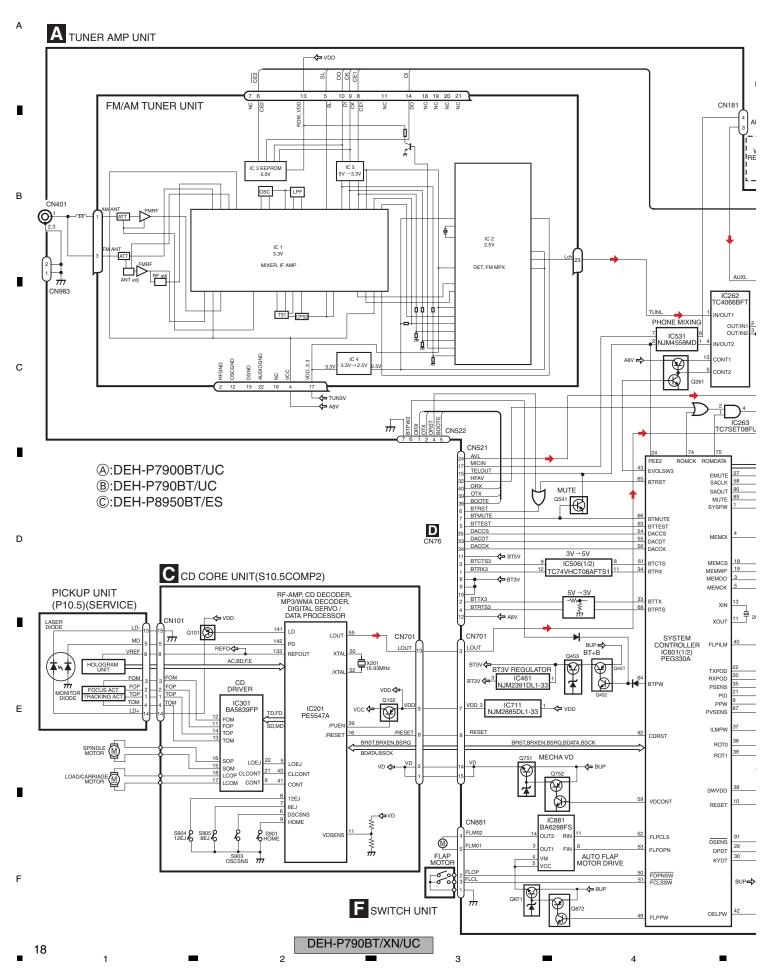
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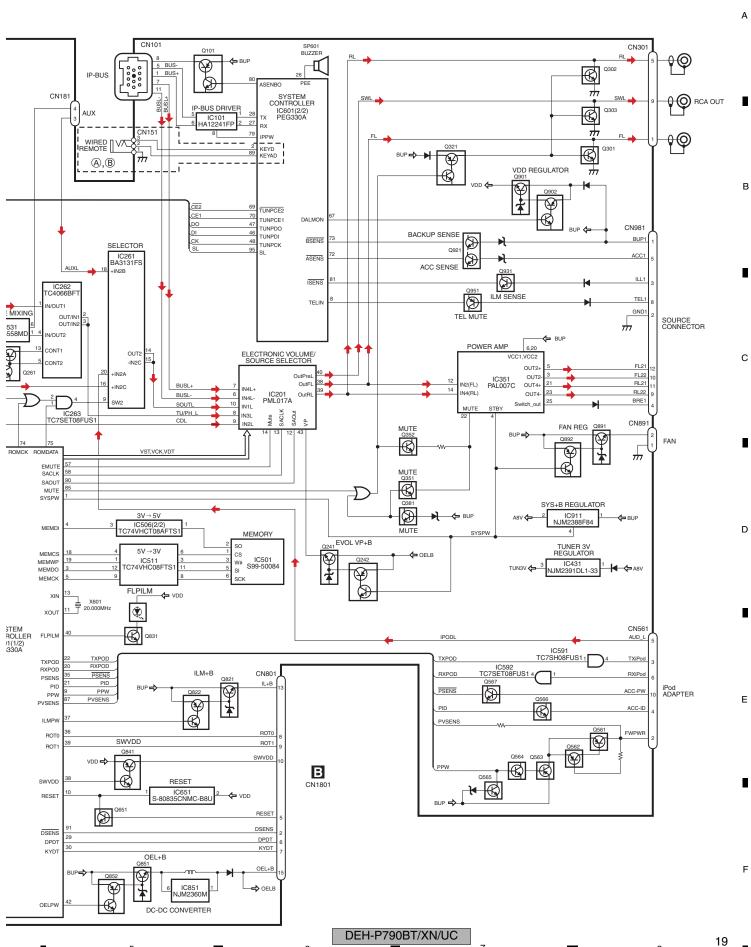
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### 3. BLOCK DIAGRAM AND SCHEMATIC DIAGRAM

#### 3.1 BLOCK DIAGRAM





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B KEYBOARD UNIT CN1801 KEY MATRIX S1831-S1839 (ILLUMINATION) BT IND Q1831-Q1833 ROTARY COMMANDER KEY/OEL CONTROLLER JOYST IC1901 PEG303A A CN801 3V REGULATOR IC1951 S-1200B33-M5 REMOTE CONTROL SENSOR X1901 11 16MHz XOUT LS CKD CLK0 OELD DSEL CKD ADATA DSEL ROM CSO VDD OEL UNIT Q1962

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®:DEH-P790BT/UC

©:DEH-P8950BT/ES

DEH-P790BT/XN/UC

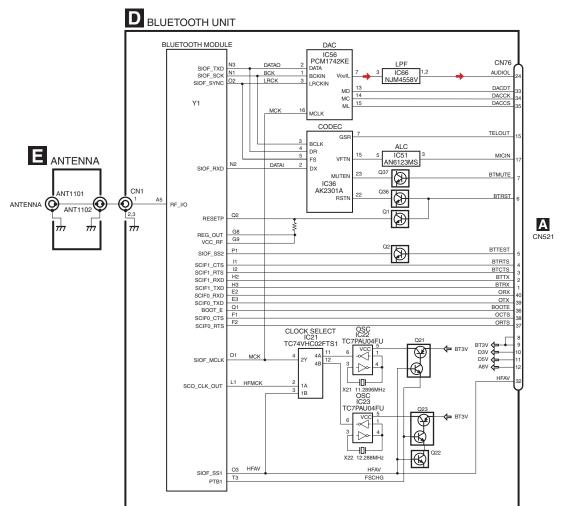
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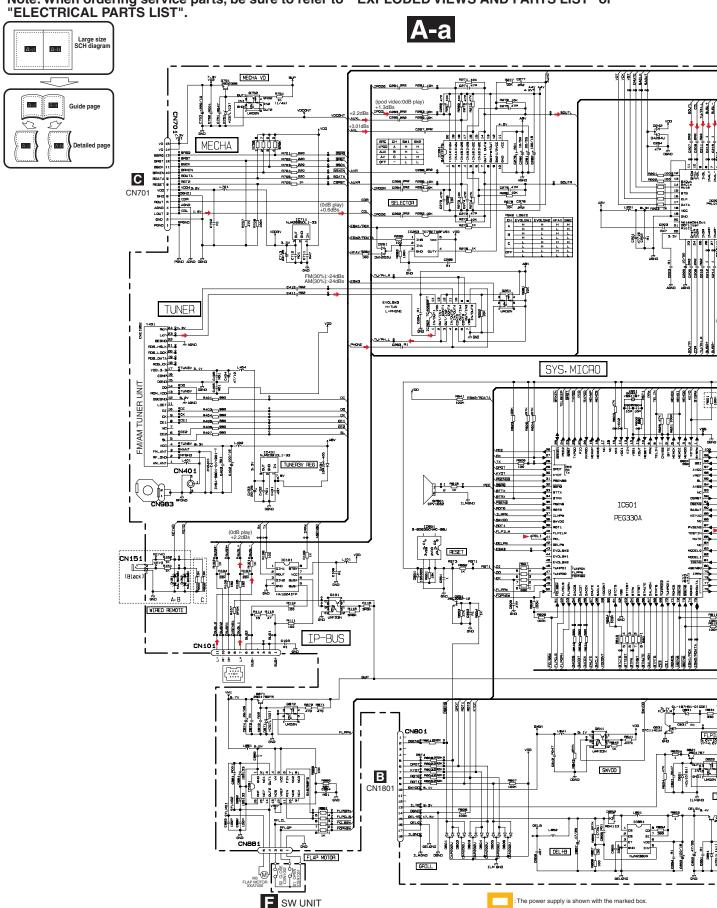
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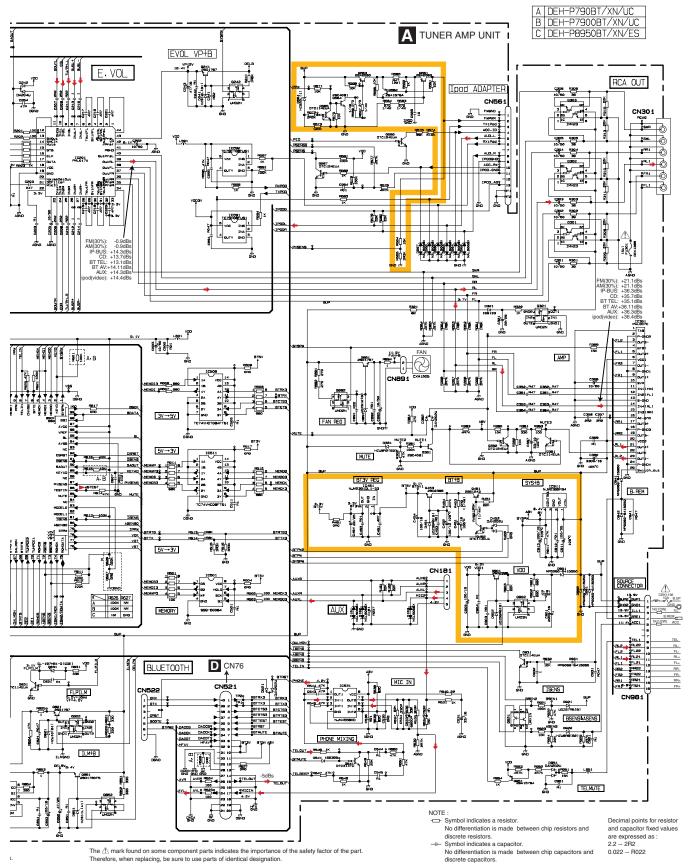
#### 3.2 OVERALL CONNECTION DIAGRAM(GUIDE PAGE)

Note: When ordering service parts, be sure to refer to " EXPLODED VIEWS AND PARTS LIST" or "ELECTRICAL PARTS LIST".



DEH-P790BT/XN/UC

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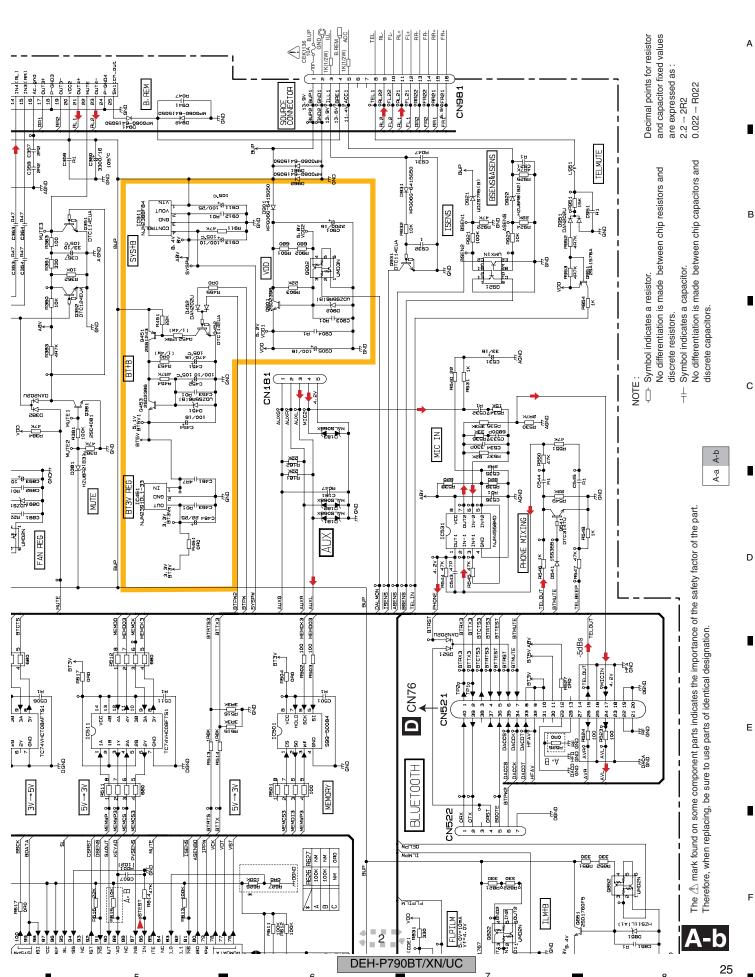
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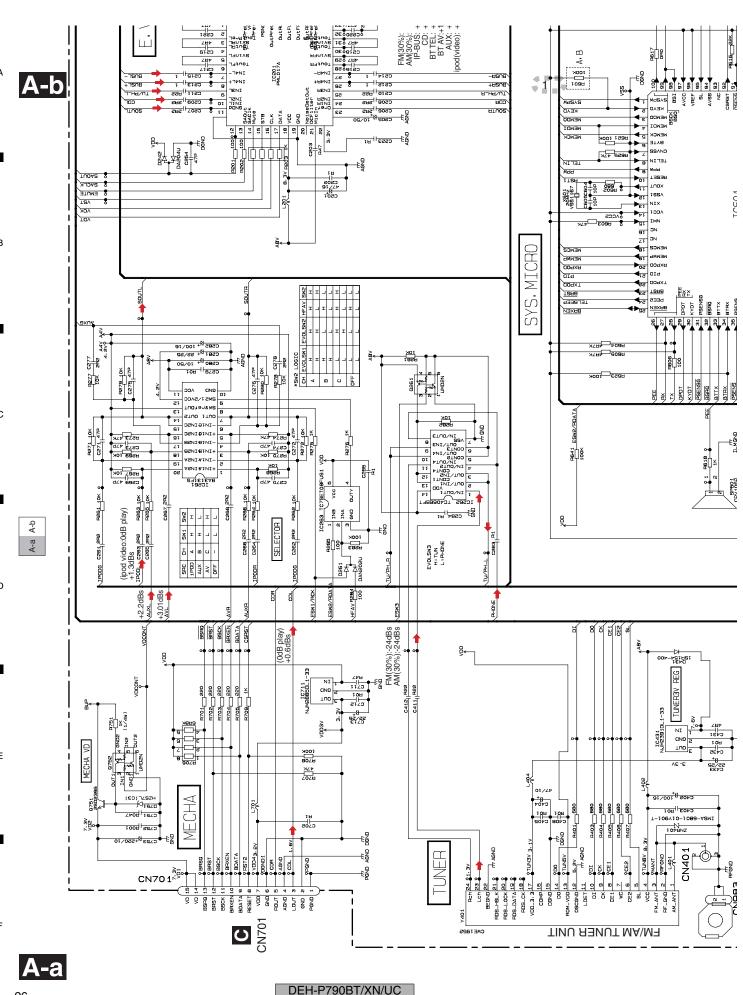
DEH-P790BT/XN/UC

Therefore, when replacing, be sure to use parts of identical designation.

PFH1 INA (AL.)
IN3 (AR.)
Ac.gnd  $\mathbb{S}$ FM(30%): +2.11/48 AM(30%): +21.11/48 IP-BUS: +36.348 CD: +35.748 BTTEL: +35.148 BTTEL: +35.148 AUX: +36.348 pod(video): +36.448 CEK 1580 (3A) FU301 DEH-P790BT/XN/UC ACA C358 C357 2H2 2H2 7900B7 \_B0G68d-H30 副集 C303 H303 C305 H302 C305 H DEH-P7 AMP C353 R47 C363 R47 C351 R47 C361 R47  $\Box$ 2,901 01/EE 19E3 ğÜ¥ 0352 075124EUA ADAPTER CN561 ACC\_ID 9 AUD\_L 9 RX1Pad 9 A TUNER AMP UNIT SEE H 207K ZGEH H3DS Ipod 輧 188K 1383 灩 188K 1384 SHZK 487K 487K 487K 487K 10K MUTE2 MUTE1 FAN Š P P B 47K 01C124EUA 3H3K 12K A-b 翻箋 햁 CB93 (1+10/50 TESZÜTFEG TESZÜTFEG TESZÜTFEG TESZÜTFEG TESZÜTFEG MUTE 0∠2 599 1∖4M 颠 許 PSENSG 9 TXP00 IPODL BTCTS3 660 BT3V 돲 IN W CO VP+B SSIST (BI) 28241 EVOL 50 → 30 3√→5√ LF & CSHST BSCK FM(30%): -0.9dBs AM(30%): -0.9dBs IP-BUS: +14.3dBs CD: +13.7dBs BT TEL: +13.1dBs BT AV:+14.11dBs AUX: +14.3dBs AUX: +14.3dBs pod(video): +14.4dBs 0 نَا 487 C219 A, B CSIGIL | 2 8 1 | 1972) | 2 8 8 1 | 1972) | 2 8 8 1 | 1972) | 2 8 8 1 | 1972) | 2 8 8 1 | 1972) | 2 8 8 1 | 1972) | 2 8 8 1 | 1972) | 2 8 8 1 | 1972) | 2 8 8 1 | 1972) | 2 8 8 1 | 1972) | 2 8 8 1 | 1972) | 2 8 8 1 | 1972) | 2 8 8 1 | 1972) | 2 8 8 1 | 1972) | 2 8 8 1 | 1972) | 2 8 8 1 | 1972) | 2 8 8 1 | 1972) | 2 8 8 1 | 1972) | 2 8 8 1 | 1972) | 2 8 8 1 | 1972) | 2 8 8 1 | 1972) | 2 8 8 1 | 1972) | 2 8 8 1 | 1972) | 2 8 8 1 | 1972) | 2 8 8 1 | 1972) | 2 8 8 1 | 1972) | 2 8 8 1 | 1972) | 2 8 8 1 | 1972) | 2 8 8 1 | 1972) | 2 8 8 1 | 1972) | 2 8 8 1 | 1972) | 2 8 8 1 | 1972) | 2 8 8 1 | 1972) | 2 8 8 1 | 1972) | 2 8 8 1 | 1972) | 2 8 8 1 | 1972) | 2 8 8 1 | 1972) | 2 8 8 1 | 1972) | 2 8 8 1 | 1972) | 2 8 8 1 | 1972) | 2 8 8 1 | 1972) | 2 8 8 1 | 1972) | 2 8 8 1 | 1972) | 2 8 8 1 | 1972) | 2 8 8 1 | 1972) | 2 8 8 1 | 1972) | 2 8 8 1 | 1972) | 2 8 8 1 | 1972) | 2 8 8 1 | 1972) | 2 8 8 1 | 1972) | 2 8 8 1 | 1972) | 2 8 8 1 | 1972) | 2 8 8 1 | 1972) | 2 8 8 1 | 1972) | 2 8 8 1 | 1972) | 2 8 8 1 | 1972) | 2 8 8 1 | 1972) | 2 8 8 1 | 1972) | 2 8 8 1 | 1972) | 2 8 8 1 | 1972) | 2 8 8 1 | 1972) | 2 8 8 1 | 1972) | 2 8 8 1 | 1972) | 2 8 8 1 | 1972) | 2 8 8 1 | 1972) | 2 8 8 1 | 1972) | 2 8 8 1 | 1972) | 2 8 8 1 | 1972) | 2 8 8 1 | 1972) | 2 8 8 1 | 1972) | 2 8 8 1 | 1972) | 2 8 8 1 | 1972) | 2 8 8 1 | 1972) | 2 8 8 1 | 1972) | 2 8 8 1 | 1972) | 2 8 8 1 | 1972) | 2 8 8 1 | 1972) | 2 8 8 1 | 1972) | 2 8 8 1 | 1972) | 2 8 8 1 | 1972) | 2 8 8 1 | 1972) | 2 8 8 1 | 1972) | 2 8 8 1 | 1972) | 2 8 8 1 | 1972) | 2 8 8 1 | 1972) | 2 8 8 1 | 1972) | 2 8 8 1 | 1972) | 2 8 8 1 | 1972) | 2 8 8 1 | 1972) | 2 8 8 1 | 1972) | 2 8 8 1 | 1972) | 2 8 8 1 | 1972) | 2 8 8 1 | 1972) | 2 8 8 1 | 1972) | 2 8 8 1 | 1972) | 2 8 8 1 | 1972) | 2 8 8 1 | 1972) | 2 8 8 1 | 1972) | 2 8 8 1 | 1972) | 2 8 8 1 | 1972) | 2 8 8 1 | 1972) | 2 8 8 1 | 1972) | 2 8 8 1 | 1972) | 2 8 8 1 | 1972) | 2 8 8 1 | 1972) | 2 8 8 1 | 1972) | 2 8 8 1 | 1972) | 2 8 8 1 | 1972) | 2 8 8 1 | 1972) | 2 8 8 1 | 1972) | 2 8 8 1 | 1972) | 2 8 1 | 1972) | 2 8 1 | 1972) | 2 8 1 | 1972) | +HSOB CSII I HSS I\_Hq/UT A\_H9\UT

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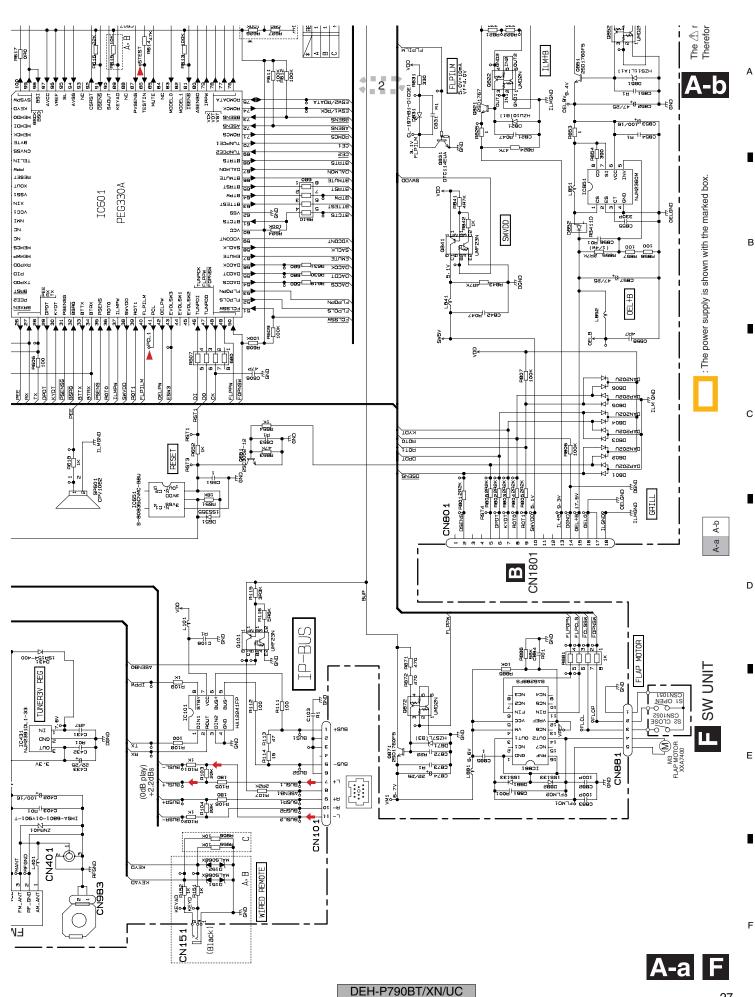




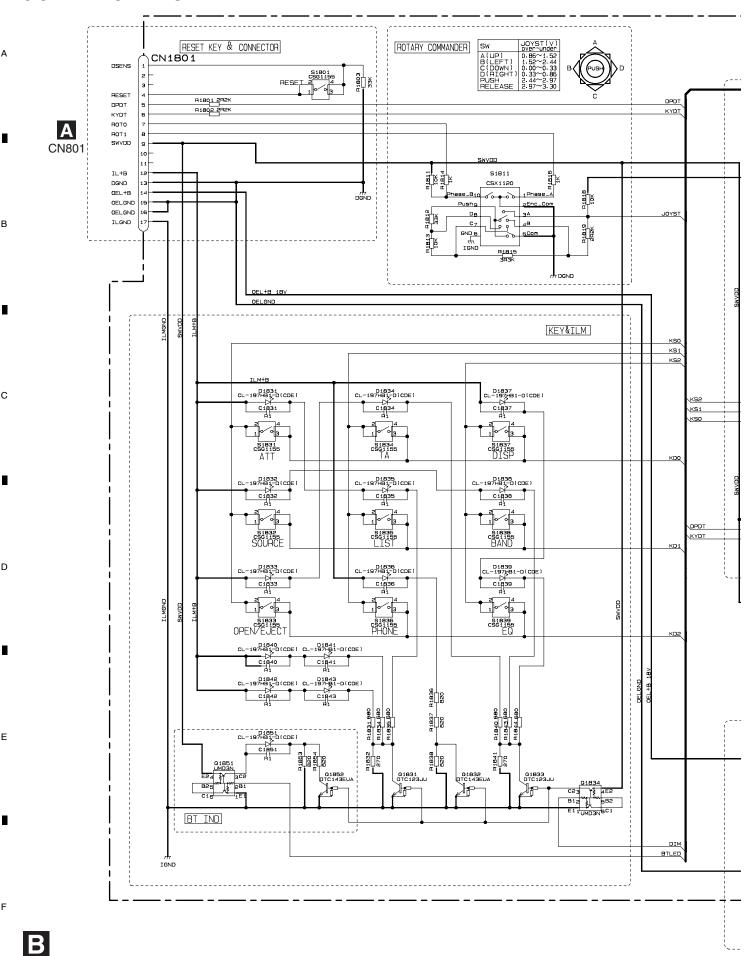
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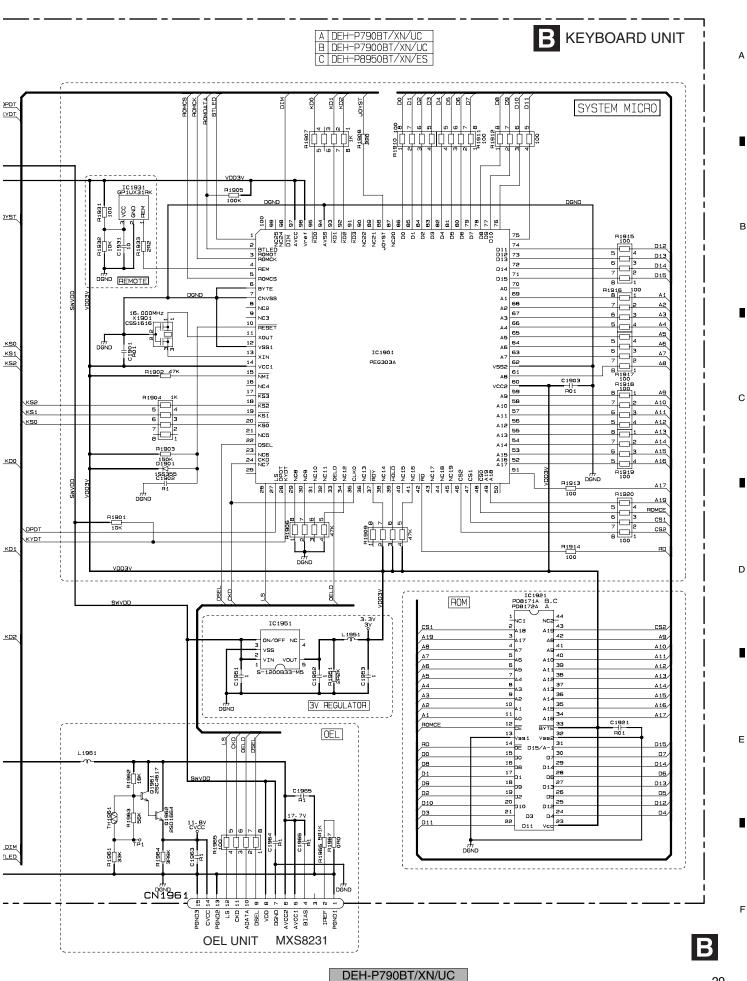
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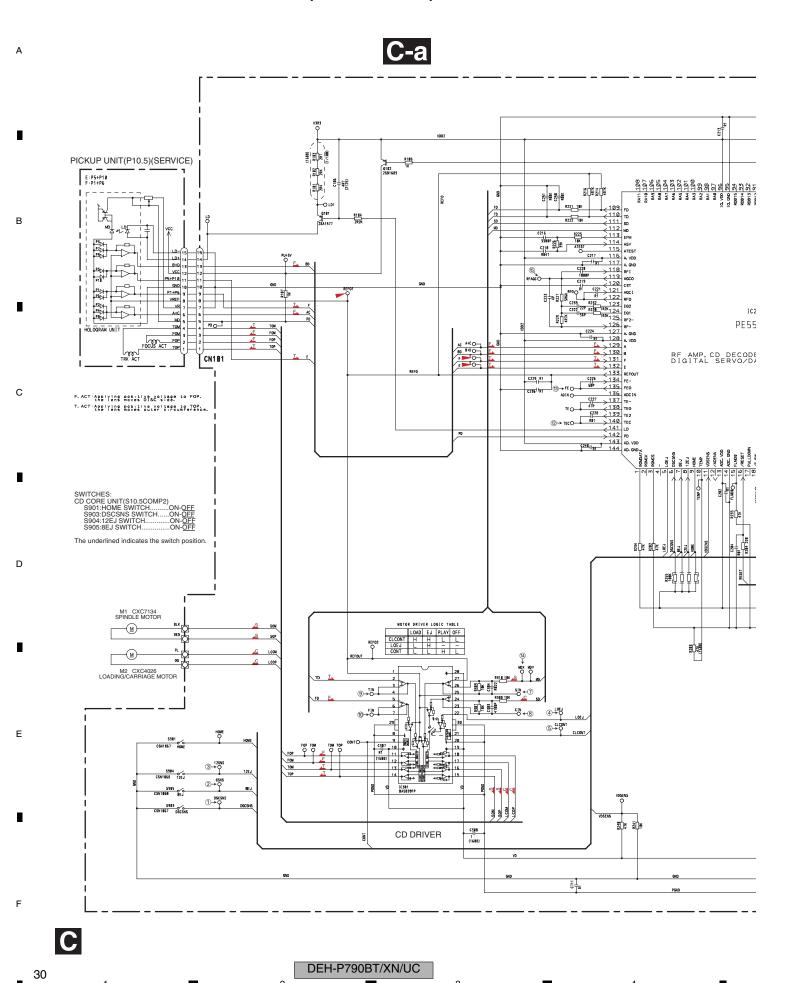
### 3.3 KEYBOARD UNIT



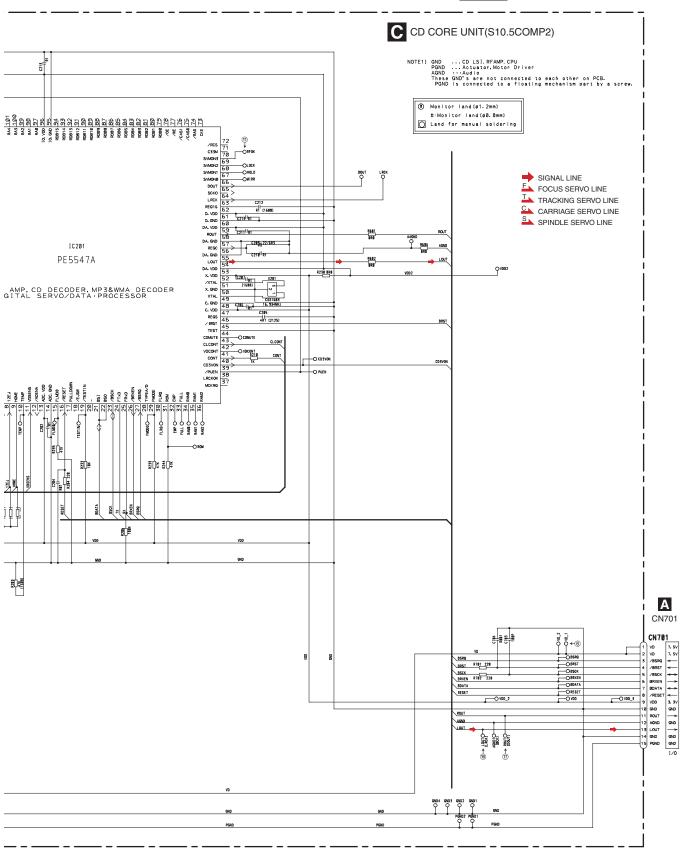
DEH-P790BT/XN/UC



### 3.4 CD MECHANISM MODULE(GUIDE PAGE)



C-b



C

DEH-P790BT/XN/UC

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...CD LSI, RFAMP, CPU
...Actuator, Motor Driver
...Actuator, Motor Driver
...Audio
...Dub's are not connected to each other on PCB.
is connected to a floating mechanism part by a screw. CARRIAGE SERVO LINE TRACKING SERVO LINE SPINDLE SERVO LINE FOCUS SERVO LINE SIGNAL LINE CD CORE UNIT(S10.5COMP2) Land for manual soldering Q VDD2 #:Monitor land (#0.8mm) Monitor land (#1.2mm) GND PGND AGND These PGND CD3V0N AGND BRST NOTE1) **@**  $\bigcirc$ С 뤛O 2 2 2 2 3 3 3 3 3 EE 023 C-p §0-C-a R238 8R8 O CD3VON O PUEN 16287/| KI (1608) CONT R1 (1688) C289<sub>1/2</sub>2/6R3 C218 Pt C285 C214 PR1 O VDCONT R218 OLOCK OHOLD OMIRR -O CDMUTE CZTTIRT 50 4 4 7 7 7 2 2 2 2 CONT SMAS ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## 300 ## RAMB O— **LMA9** FULL RAM0 FULL O EMP EWP O-AMP, CD DECODER, MP3&WMA DECODER ITAL SERVO/DATA·PROCESSOR 20 FLRQ 20 FLRQ 20 FMODE FLRQ O--- CEMODE \B260 \B6XEN FR×D G×T∃ 52 ΣΣ<> **BZCK** B20 PE5547A 81 81 10201 VIESTIN \_E∩SW C213 1 . . . . DEH-P790BT/XN/UC

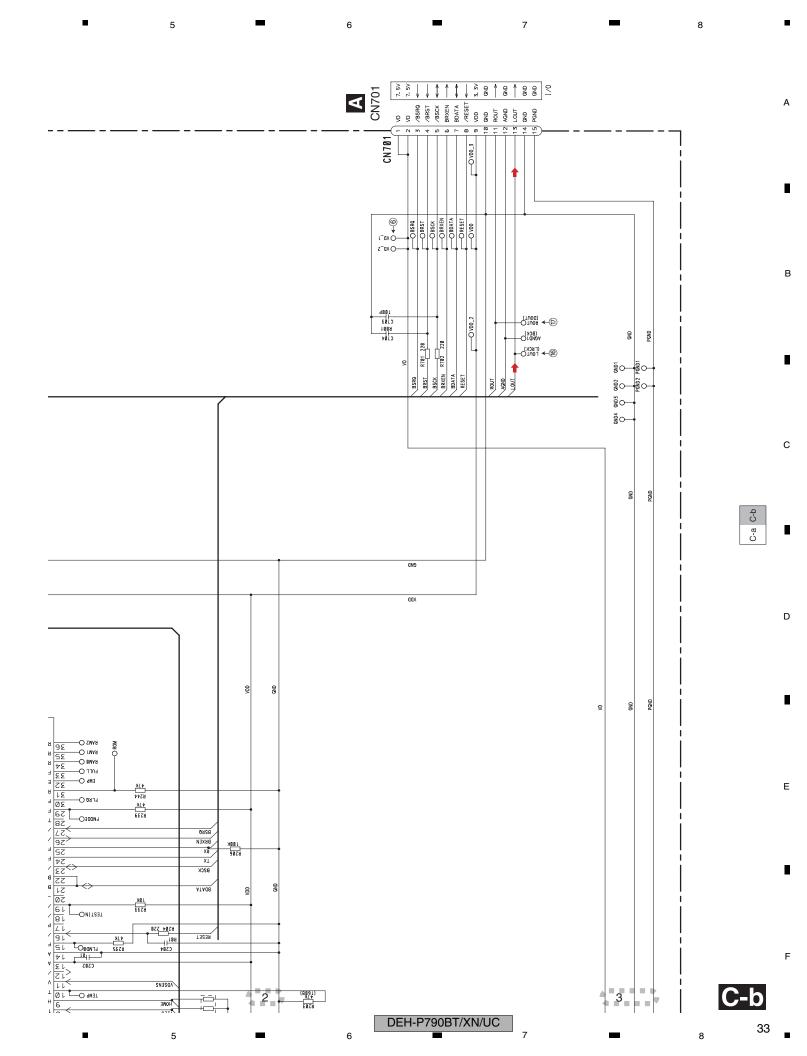
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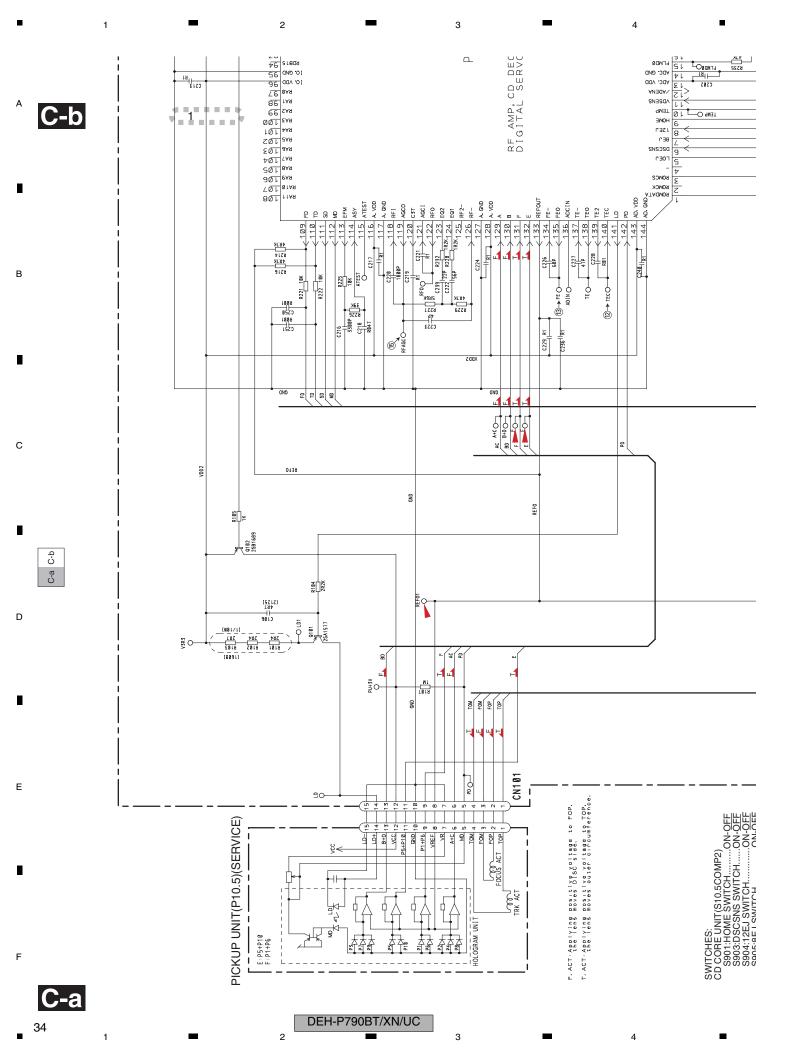
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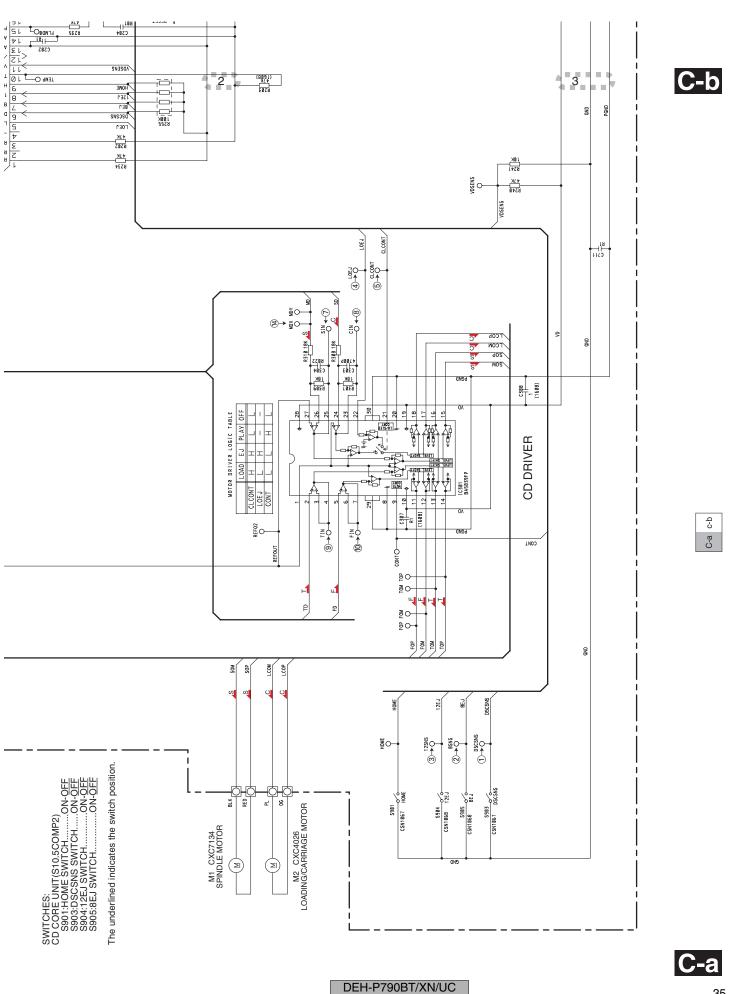
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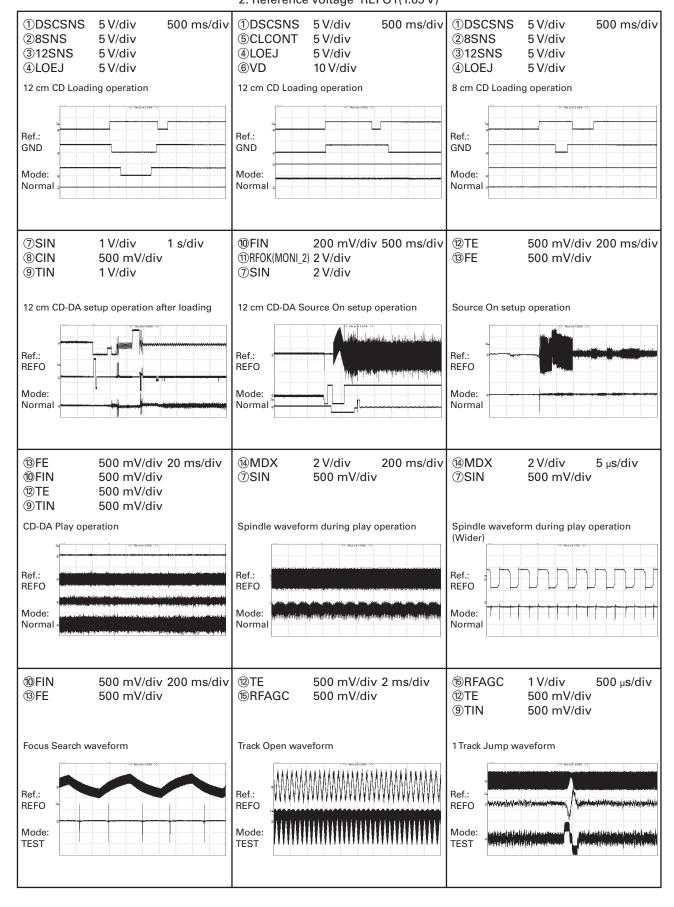
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Waveforms

Note: 1. The encircled numbers denote measuring points in the circuit diagram.
2. Reference voltage REFO1(1.65 V)



DEH-P790BT/XN/UC

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**®RFAGC** 1 V/div 500 µs/div **®RFAGC** 1 V/div 500 µs/div **®RFAGC** 1 V/div 2 ms/div 12TE 500 mV/div 12TE 500 mV/div 12)TE 500 mV/div 9TIN 9TIN 9TIN 500 mV/div 500 mV/div 500 mV/div 4Tracks Jump waveform 10 Tracks Jump waveform 32 Tracks Jump waveform Ref.: Ref.: Ref.: REFO REFO REFO Mode: Mode: Mode: TEST TEST TEST **®RFAGC** 1 V/div 200 ms/div **16LOUT** 1 V/div  $200~\mu s/div$ **①DSCSNS** 5 V/div 500 ms/div **12**TE **28SNS** 5 V/div 1 V/div **®ROUT** 1 V/div **®CIN** 1 V/div **312SNS** 5 V/div **7SIN** 2 V/div **4**LOEJ 5 V/div Search operation(Outter to Inner) Analog audio waveform 12 cm CD Eject operation Ref.: REFO Ref.: Ref.: AGND GND Mode: Mode: Mode: Normal Normal Normal 5 V/div 500 ms/div ①DSCSNS 500 ms/div **®RFAGC** ①DSCSNS 5 V/div 1 V/div 500 µs/div **5CLCONT** 5 V/div **28SNS** 5 V/div 9TIN 1 V/div **4**LOEJ 5 V/div **312SNS** 5 V/div **12TE** 1 V/div **4LOEJ** 5 V/div **10FIN** 1 V/div 8 cm CD Eject operation Black dot(800 µm) during play 12 cm CD Eject operation Ref.: Ref.: Ref.: REFO GND GND Mode: Mode: Mode: Norma Normal Normal

DEH-P790BT/XN/UC

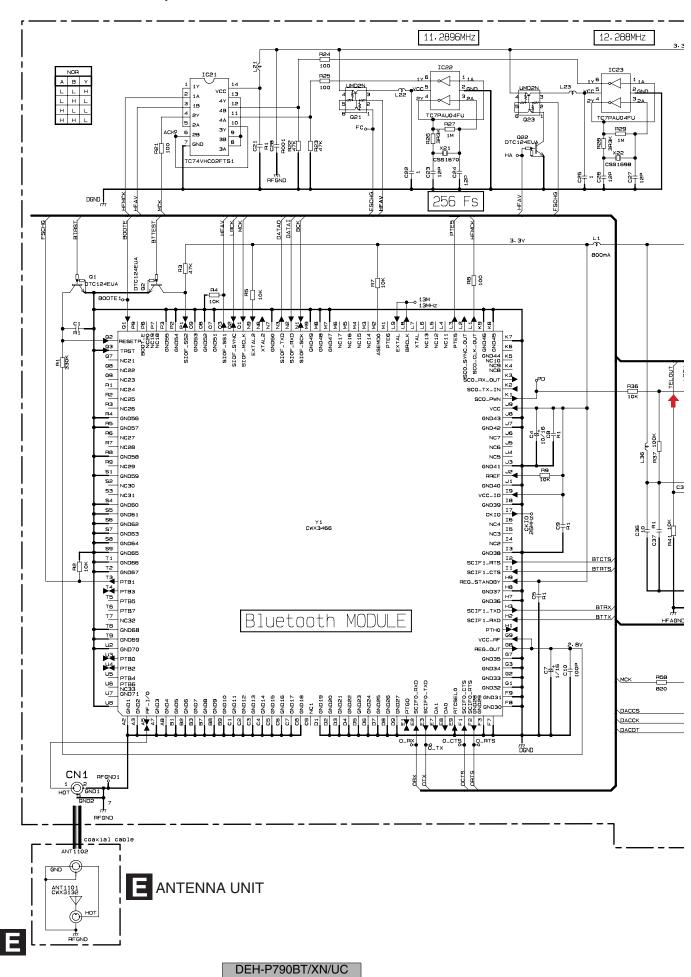
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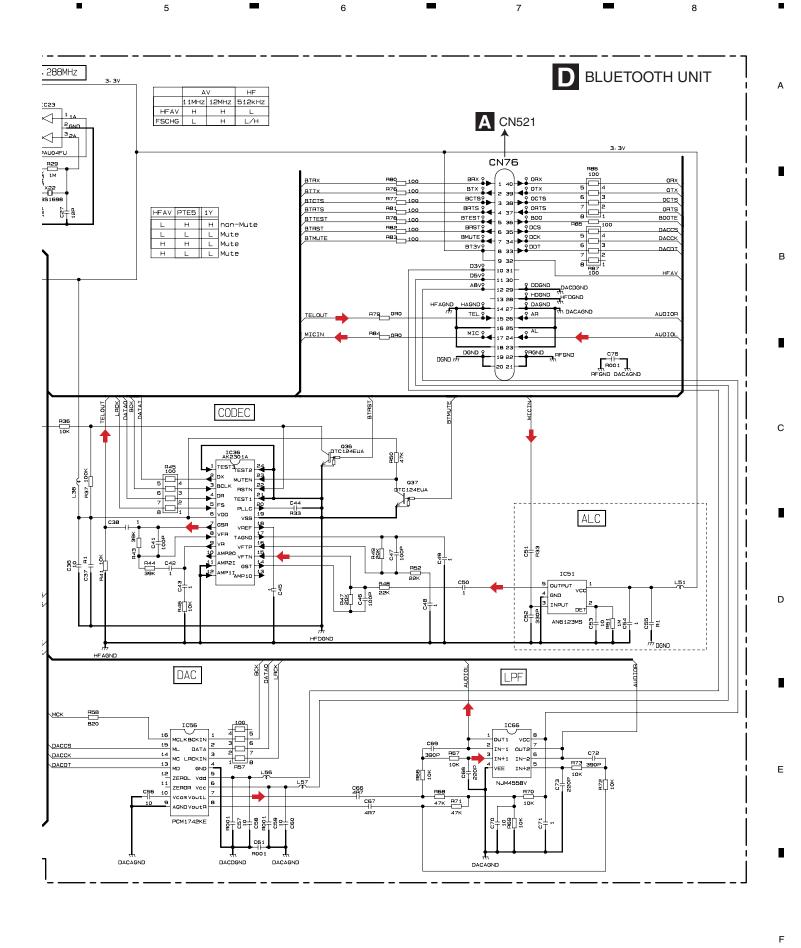
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## 3.5 BLUETOOTH UNIT, ANTENNA UNIT



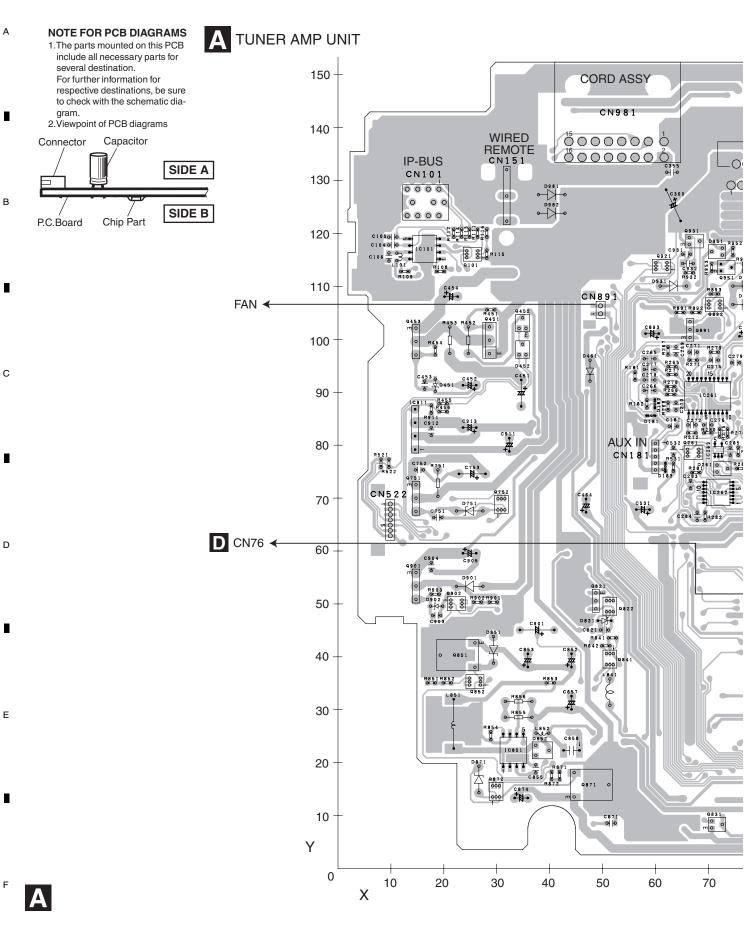


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# 4. PCB CONNECTION DIAGRAM 4.1 TUNER AMP UNIT



DEH-P790BT/XN/UC

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ANTENNA CN401 ZNR401 0N0 **iPOD** FM/AM TUNER UNIT ADAPTER CN561 RCA OUTPUT 0000000000000 CN301 -0 CN983 00000 000000 000000 Ç280 •₩• C281 C302 1241 0 0 0 0 MIC251 0 0 . . . 20 15 C243 m<u>ilimili</u> C205 R202 0 0 0 × 60° CN521 CN701 **→ C** CN701 0 R881 CN8 8 1 •••• O R70 O I C 5 1 1 → F Ŏ 10506 506 9 9 ➤ M3 CN801 000000000 R885 G⊏D0 C831 → 15 D831 → **B** CN1801 70 80 90 100 110 120 130 140 150 160 170 **FRONT** 

SIDE A

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A

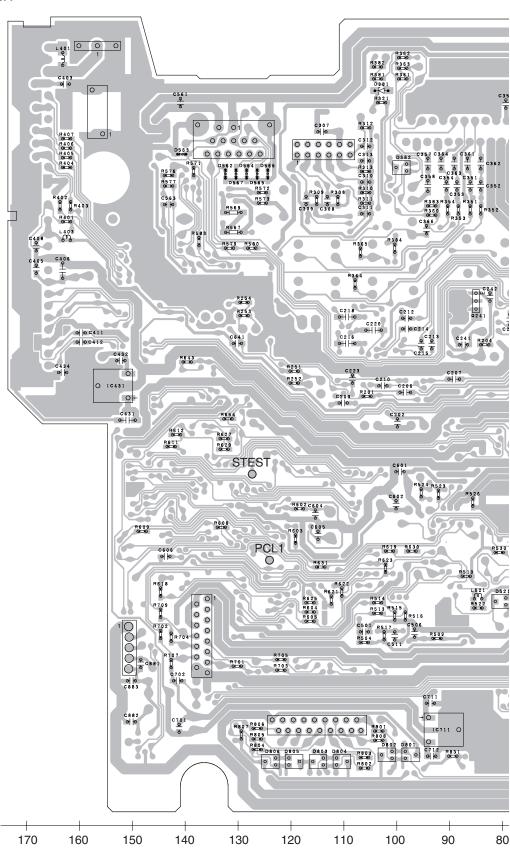
DEH-P790BT/XN/UC

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A TUNER AMP UNIT



DEH-P790BT/XN/UC

SIDE B -150 140 0000000 0000000 -130 -120 -110 O O 0 8 100 O 0 O O 3 90 C207 80 O C461 C462 0 0 0 1C461 O 70 60 50 40 30 20 C711 O 2 R831 9⊟9 10 Υ 0 90 80 70 60 50 40 30 20 10 Χ

DEH-P790BT/XN/UC

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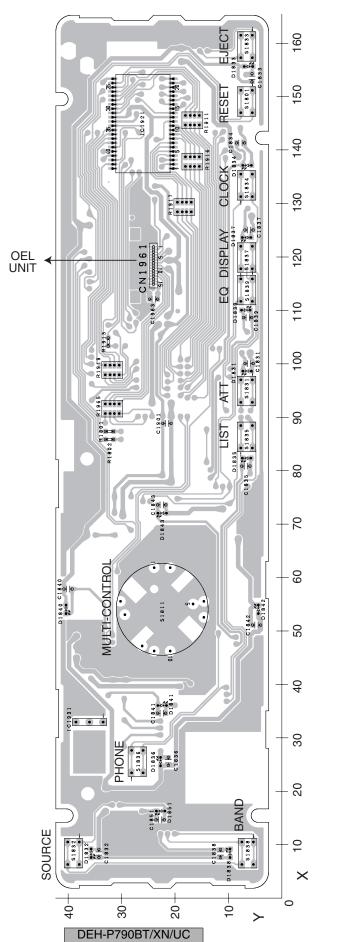
### 4.2 KEYBOARD UNIT

В

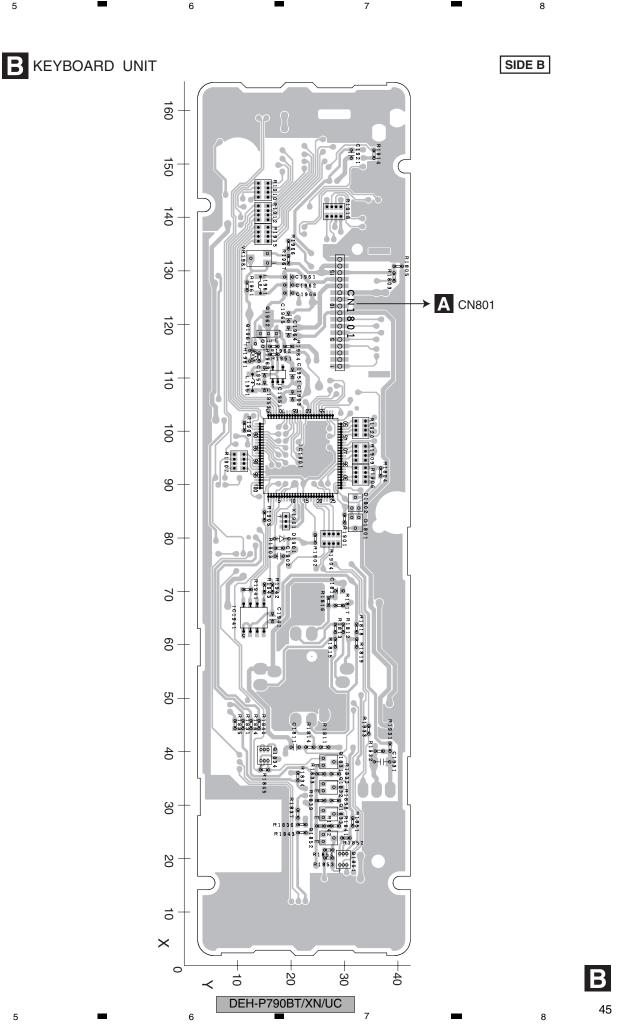
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B KEYBOARD UNIT



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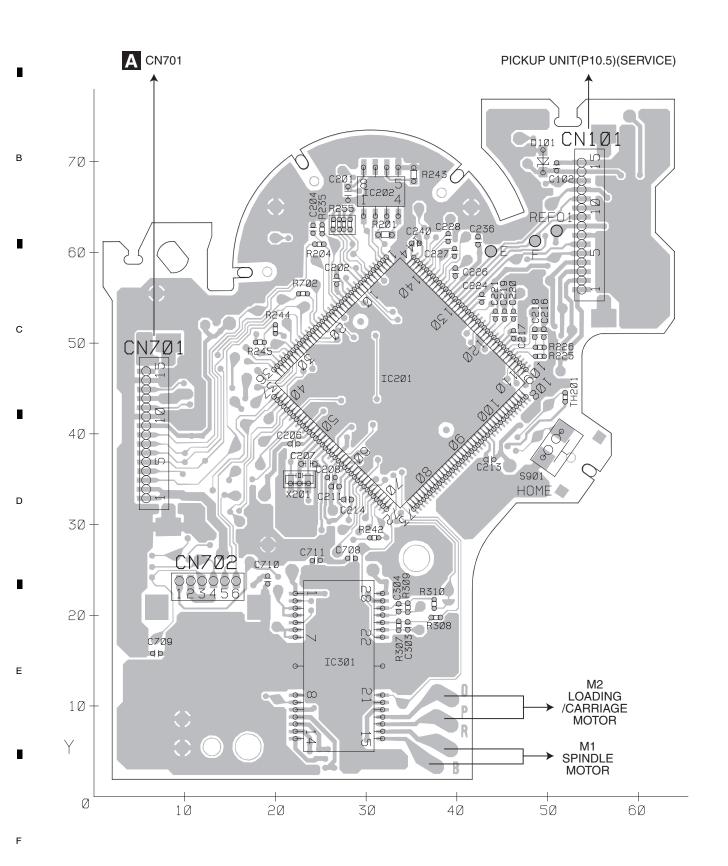


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### 4.3 CD CORE UNIT(S10.5COMP2)

C CD CORE UNIT(S10.5COMP2)

SIDE A

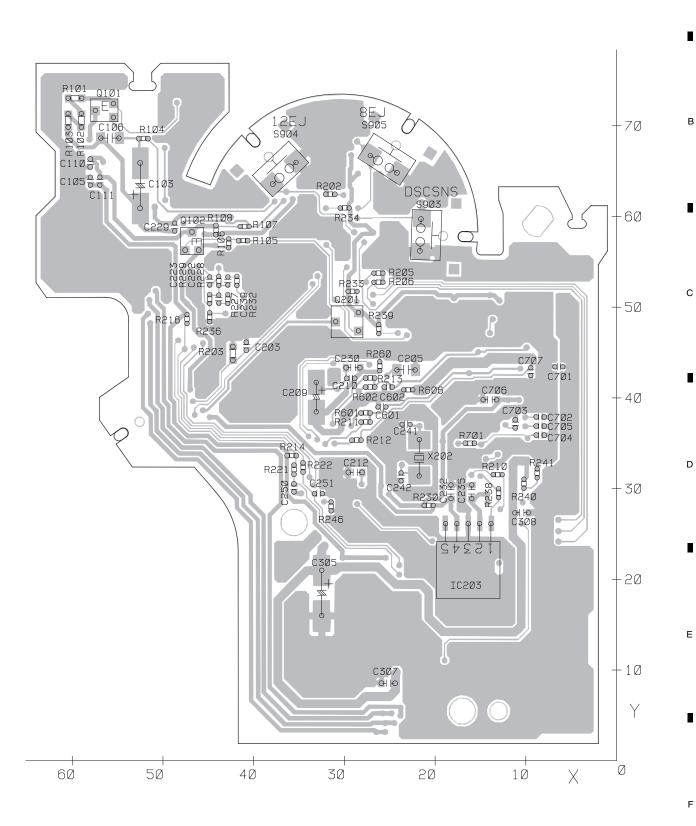


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DEH-P790BT/XN/UC

C CD CORE UNIT(S10.5COMP2)

SIDE B



C

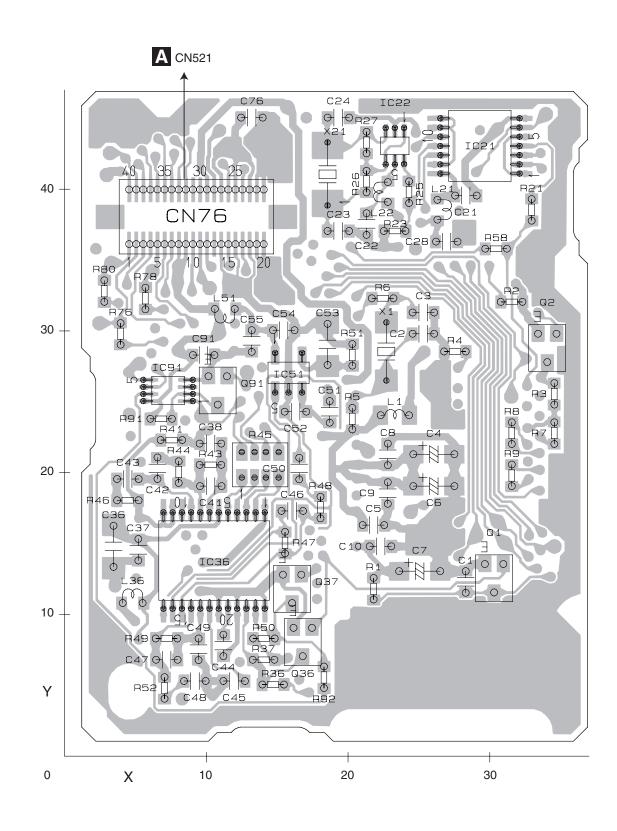
DEH-P790BT/XN/UC

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#### 4.4 BLUETOOTH UNIT

**D** BLUETOOTH UNIT

SIDE A



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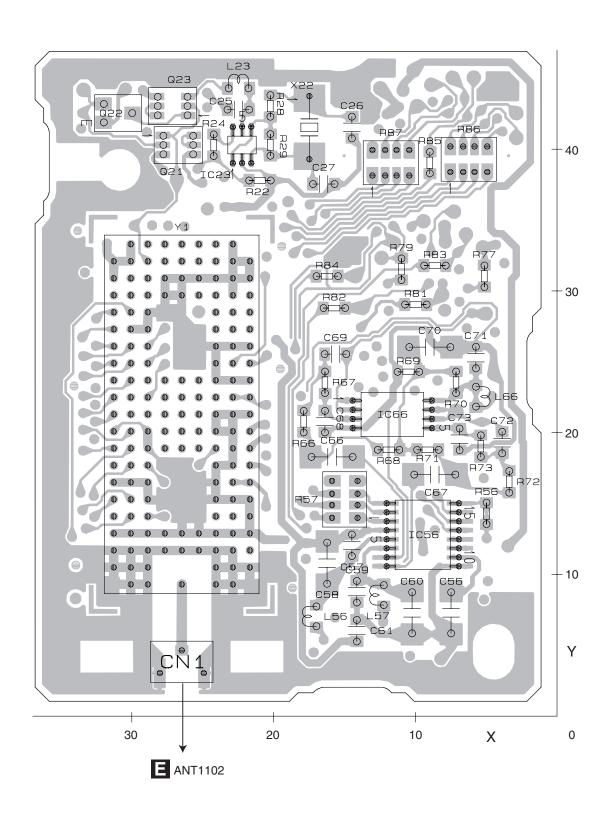
DEH-P790BT/XN/UC

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IDE B



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DEH-P790BT/XN/UC

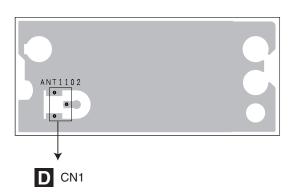
# 4.5 ANTENNA UNIT

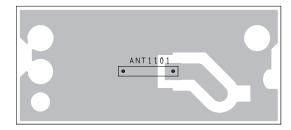


SIDE A

**E** ANTENNA UNIT

SIDE B





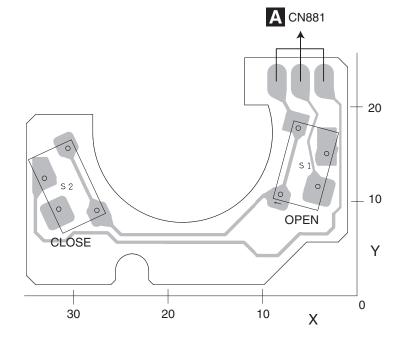
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# F SWITCH UNIT



DEH-P790BT/XN/UC

## 5. ELECTRICAL PARTS LIST

#### *NOTE:*

- Parts whose parts numbers are omitted are subject to being not supplied.
- The part numbers shown below indicate chip components.

Chip Resistor

 $RS1/\bigcirc S\bigcirc\bigcirc\bigcirc J,RS1/\bigcirc\bigcirc S\bigcirc\bigcirc\bigcirc J$ 

Chip Capacitor (except for CQS.....)

*CKS....., CCS....., CSZS.....* 

- The A mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- Meaning of the figures and others in the parentheses in the parts list.
- Example) IC 301 is on the point (face A, 91 of x-axis, and 111 of y-axis) of the corresponding PC board.

IC 301 (A, 91, 111) IC NJM2068V

	·	uit Symbol and No.	Part No.	<u>Ci</u> IC 501	rcuit Symbol and No. (A,112,37) IC	<u>Part No.</u> S99-50084
_	Unit Nur	mber:		IC 506	(A,99,35) IC	TC74VHCT08AFTS1
	<b>CWN234</b>	I3(P790BT,P7900B	T)		, , ,	
		•	•	IC 511	(A,106,37) IC	TC74VHC08FTS1
	Unit Nur	mber: CWN2344(F	28950BT)	IC 531	(B,55,48) IC	NJM4558MD
	Unit Nan	ne : Tuner Amp	Unit	IC 591	(A,130,104) IC	TC7SH08FUS1
С		-	Offic	IC 592 IC 601	(A,130,108) L-MOS And Ga	PEG330A
	Unit Nur	mber :		10 60 1	(A,126,58) IC	PEG330A
	Unit Nan	ne : Keyboard U	Init	IC 651	(A,123,81) IC	S-80835CNMC-B8U
		•		IC 711	(B,89,18) IC	NJM2885DL1-33
	Unit Nur	mber: CWN2339		IC 851	(A,33,22) IC	NJM2360M
_	Unit Nan	ne : Bluetooth l	Init	IC 881	(A,148,16) IC	BA6288FS
			mit	IC 911	(A,15,79) IC	NJM2388F84
	Unit Nur	mber: CWN2634		Q 101	(A,25,116) Transistor	UMF23N
	Unit Nan	ne : Antenna Ur	\i+	Q 241	(B,87,99) Transistor	2SD1767
	Unit Man	ne : Antenna or	IIL	Q 242	(A,90,99) Transistor	UMD2N
	<b>Unit Nur</b>	mber: CWS1389		Q 261	(A,67,79) Transistor	UMD2N
D				Q 301	(A,114,123) Transistor	IMH23
	Unit Nan	ne : Switch Unit	•	Q 302	(A,114,118) Transistor	IMH23
	<b>Unit Nur</b>	mber: CWX3514		Q 303	(A,107,117) Transistor	IMH23
		25.2		Q 321	(A,108,123) Transistor	UMD2N
	Unit Nan	ne : CD Core		Q 351	(A,105,125) Chip Transistor	
	Unit(S10	).5COMP2)		Q 352	(A,104,122) Chip Transistor	r DTC124EUA
_	•	,		Q 381	(A,101,125) Transistor	2SC4081
				Q 451	(A,29,100) Transistor	2SB1243
	Λ			Q 452	(A,35,103) Chip Transistor	
	A			Q 453	(A,14,100) Transistor	2SD2396
_	Unit Nur	mber:		Q 541	(B,56,37) Transistor	DTC314TU
E	<b>CWN234</b>	I3(P790BT,P7900B	T)	Q 561	(A,148,129) Transistor	2SA2060
		mber: CWN2344(F	•	Q 562	(A,144,122) Transistor	2SA1576A
				Q 563	(A,128,121) Transistor	2SA2060
	Unit Nan	ne : Tuner Amp	Unit	Q 564	(A,135,119) Transistor	2SC4081
	MICCELLA	ANEOUS		Q 565	(A,135,121) Chip Transistor	r DTC114EUA
	MISCELLA	ANEOUS		Q 566	(A,146,108) Chip Transistor	r DTC124EUA
	IC 101	(A,16,117) IC	HA12241FP	Q 567	(A,142,102) Chip Transistor	r DTC124EUA
	IC 201	(A,103,87) IC	PML017A	Q 651	(A,121,78) Transistor	2SC3052-12
	IC 261	(A,70,89) IC	BA3131FS	Q 751	(A,14,70) Transistor	2SD2396
	IC 262	(A,72,71) IC	TC4066BFT	Q 752	(A,31,69) Transistor	UMD2N
_	IC 263	(A,72,79) L-MOS And Gate	TC7SET08FUS1	0.001	(A 47 F1) Transista	00D1767
F				Q 821 Q 822	(A,47,51) Transistor (A,51,50) Transistor	2SD1767 UMD2N
	IC 351	(A,86,135) IC	PAL007C	Q 822 Q 831	(A,72,8) Chip Transistor	DTC114EUA
	IC 431	(B,155,83) IC	NJM2391DL1-33	Q 841	(A,51,40) Transistor	UMF23N
	IC 461	(B,39,71) IC	NJM2391DL1-33	<b>G</b> 5∓1	(7,01,10)	J 2011
	52		DEH-P790BT/X	N/UC		

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Circu	uit Symbol and No.	Part No.		Circ	uit Symbo	l and No.	Part No.	
Q 851	(A,21,40) Transistor	2SD1760F5		ZNR401	-		r IMSA-6801-01Y901	
<b>~</b> 33.	(, 1,2 ), 10)	2021700.0			(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Gu.go . rotosto		
Q 852	(A,26,35) Transistor	UMD2N		L 101	(A,11,116)	Inductor	LCTC1R0K1608	
Q 871	(A,49,16) Transistor	2SD1760F5		L 201	(A,97,70) li	nductor	LCTAW2R2J2520	Α
Q 872	(A,30,15) Transistor	UMD2N		L 401	(B,163,145)		LCTAW220J2520	
Q 891	(A,68,102) Transistor	2SD1767		L 402	(A,159,111)	•	LCTAW1R0J2520	
Q 892	(A,71,107) Transistor	UMD2N		L 404	(A,159,98)	Inductor	LCTAW2R2J2520	
0.001	(A 14 FQ) Transister	000000		I 501	/A 100 100)	Industry	OTE1200	
Q 901 Q 902	(A,14,53) Transistor (A,22,50) Transistor	2SD2396 UMD3N		L 591 L 601	(A,128,106)	erri-Inductor	CTF1382 LAU100K	
Q 902 Q 921	(A,61,114) Transistor	UMX1N		L 701	(A, 140, 25)		LAU1R0K	
Q 931	(A,67,119) Chip Transistor			L 841	·	erri-Inductor	LAU100K	_
Q 951	(A,73,114) Transistor	2SA1576A		L 851	(A,22,27) II		CTF1660	
	, , ,				, , ,			
D 151	(B,27,128) Diode(P790BT,			L 852	(A,39,26) C		LCTAW4R7J2520	
D 152	(B,26,123) Diode(P790BT,	•		L 881	(A,134,15)		LCTAW2R2J2520	
D 181	(A,59,86) Diode	MALS068X		L 951	(B,45,116)		LCTAW2R2J2520	В
D 182	(A,60,88) Diode	MALS068X		X 601		Crystal 20 MHz		
D 183	(A,62,76) Diode	MALS068X	4	<b>.</b> FU301	(A,118,123)	ruse 3 A	CEK1286	
D 241	(A,86,93) Diode	HZS12L(B1)		SP601	(A,147,47)	Buzzer	CPV1062	
D 242	(A,124,86) Diode Network	` '			FM/AM Tun		CWE1952	
D 261	(A,73,76) Diode	DAN202U						
D 321	(A,102,116) Diode	1SS133	ı	RESISTO	RS			
D 381	(B,103,139) Diode	HZU8R2(B3)	-					
				R 101	(B,13,120)		RS1/16S102J	
D 382	(B,99,124) Diode	DAN202U		R 102	(B,16,117)		RS1/16S102J	
D 431	(A,156,79) Diode	1SR154-400		R 103	(B,11,120)		RS1/16S223J	
D 451	(A,18,91) Diode	UDZS5R6(B)		R 104	(B,16,119)		RS1/16S223J	
D 452	(A,35,98) Diode	DAN202U		R 105	(B,11,127)		RS1/16S181J	С
D 521	(B,80,42) Diode	DAN202U		D 400	(D. 00. 100)		D04/4004044	
D 541	(B,65,34) Diode	1SS355		R 106	(B,20,120)		RS1/16S181J	
D 561	(A,121,118) Diode	HZS22L(1)		R 107 R 108	(B,22,120)		RS1/16S222J	
D 562	(B,132,123) Diode	MALS068X		R 109	(A,19,113) (A,13,113)		RS1/16S101J RS1/16S102J	
D 563	(B,141,127) Diode	MALS068X		R 111	(A,13,113) (A,26,120)		RS1/16S101J	_
D 564	(B,128,123) Diode	MALS068X			(,1,20,120)		1101/1001010	
				R 112	(A,22,120)		RS1/16S101J	
D 565	(B,126,123) Diode	MALS068X		R 113	(A,25,120)		RS1/16S470J	
D 566	(B,124,123) Diode	MALS068X		R 114	(A,23,120)		RS1/16S150J	
D 567	(B,130,123) Diode	MALS068X		R 115	(A,28,116)		RS1/16S332J	
D 651 D 751	(A,126,81) Diode	1SS355		R 116	(A,28,120)		RS1/16S562J	Б.
וס/ ט	(A,25,68) Diode	HZS7L(C3)		D 454	(D 00 100)	(D700DT D7000	DT) D04/4004001	D
D 801	(B,97,13) Diode	DAP202U		R 151	, , ,	•	BT) RS1/16S102J	
D 802	(B,102,13) Diode	DAN202U		R 152 R 181	(B,29,127) (A,56,93)	(P790B1,P7900	BT) RS1/16S102J RS1/16S223J	
D 803	(B,115,12) Diode	DAP202U		R 182	(A,58,88)		RS1/16S223J	
D 804	(B,110,12) Diode	DAN202U		R 201	(B,106,81)		RS1/16S101J	
D 805	(B,119,12) Diode	DAP202U		201	(2,100,01)		1101/1001010	
				R 202	(A,101,70)		RS1/16S101J	_
D 806	(B,124,12) Diode	DAN202U		R 203	(A,104,70)		RAB4C102J	
D 821	(A,50,47) Diode	HZU10(B1)		R 241	(A,85,98)		RS1/16S182J	
D 831	(A,88,8) LED	CL-197HB1-D(CDE)		R 261	(B,68,95)		RS1/16S103J	
D 851	(A,29,41) Diode	HZS11L(A1)		R 262	(B,70,87)		RS1/16S103J	
D 852	(A,39,22) Diode	RB411D		D 060	(D.64.00)		D01/1601001	E
D 871	(A,27,17) Diode	HZS7L(B3)		R 263	(B,64,98)		RS1/16S103J	
D 881	(A,149,25) Diode	1SS133		R 264 R 265	(B,65,90) (A,63,95)		RS1/16S103J RS1/16S103J	
D 882	(A,149,22) Diode	1SS133		R 266	(A,63,90)		RS1/16S103J	
D 891	(B,66,100) Diode	UDZS12(B)		R 267	(A,62,98)		RS1/16S103J	
D 901	(A,25,53) Diode	MPG06G-6415G50		0,	(, ,,02,,00)			
	4			R 268	(A,62,87)		RS1/16S103J	
D 902	(A,19,50) Diode	UDZS5R6(B)		R 269	(B,72,96)		RS1/16S103J	
D 921	(B,47,121) Diode	UDZS7R5(B)		R 270	(B,69,92)		RS1/16S103J	
D 922	(B,47,119) Diode	HZU6R8(B2)		R 271	(A,67,96)		RS1/16S103J	
D 931	(A,63,110) Diode	MPG06G-6415G50		R 272	(A,67,82)		RS1/16S103J	
D 941	(A,77,107) Diode	MPG06G-6415G50		D 070	/D =0 65°		D04/400470:	
D 942	(A,77,110) Diode	MPG06G-6415G50		R 273	(B,76,96)		RS1/16S473J	F
D 942 D 951	(A,77,110) Diode (A,72,117) Diode	DAN202U		R 274	(B,74,92)		RS1/16S473J	
D 981	(A,40,127) Diode (A,40,127) Diode	MPG06G-6415G50		R 275	(A,72,82)		RS1/16S102J	
D 982	(A,40,124) Diode	MPG06G-6415G50		R 276	(A,74,82)		RS1/16S102J	
	, , -, , =		DZOOD	BT/XN/UC	1			
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	Circ	uit Symbol and No.	Part No.	Circ	cuit Symbol and No.	Part No.
	R 277	(A,63,93)	RS1/16S103J	R 508	(A,100,41)	RAB4C681J
	R 278	(A,63,91)	RS1/16S103J	D 500	(D.00.35)	RS1/16S0R0J
	R 279	(A,71,98)	RS1/16S103J	R 509 R 511	(B,92,35) (A,106,31)	RAB4C681J
Α	R 280	(A,71,30) (A,70,82)	RS1/16S103J	R 512	(A,106,43)	RAB4C681J
	R 281	(A,70,02) (A,68,75)	RS1/16S103J	R 513	(B,104,40)	RS1/16S182J
	R 282	(A,69,67)	RS1/16S103J	R 514	(B,104,42)	RS1/16S182J
	R 283	(A,76,76)	RS1/16S104J	R 515	(B,100,40)	RS1/16S332J
	R 284	(A,78,74)	RS1/16S101J	R 516	(B,98,40)	RS1/16S332J
	R 285	(A,76,79)	RS1/16S101J	R 517	(B,102,36)	RS1/16S0R0J
	R 301	(A,117,123)	RS1/16S390J	R 523	(B,92,63)	RS1/16S101J
	R 302	(A,118,119)	RS1/16S390J	R 524	(B,95,63)	RS1/16S101J
	R 303	(A,114,113)	RS1/16S390J	R 526	(B,86,61) (P790BT,P7900B	BT) RS1/16S0R0J
	R 304	(A,116,113)	RS1/16S390J	R 527	(B,85,41)	RS1/16S0R0J
В	R 305	(A,111,114)	RS1/16S390J	R 530	(B,81,52)	RS1/16S272J
	R 306	(A,107,113)	RS1/16S390J	R 531	(A,63,76)	RS1/16S102J
	R 308	(B,111,118)	RS1/16S223J	R 534	(B,43,49)	RS1/16S153J
	R 309	(B,115,118)	RS1/16S223J	R 535	(B,61,54)	RS1/16S332J
	R 310	(B,106,120)	RS1/16S223J	R 536	(B,46,52)	RS1/16S333J
	R 311	(B,106,118)	RS1/16S223J	R 537	(B,49,49)	RS1/16S823J
	R 312	(B,106,132)	RS1/16S223J	R 538	(B,54,54)	RS1/16S821J
	R 313	(B,106,124)	RS1/16S223J	R 539	(B,55,40)	RS1/16S821J
	R 321	(B,103,137)	RS1/16S820J	R 540	(B,66,51)	RS1/16S220J
	R 322	(A,105,120)	RS1/16S102J	R 544	(B,61,48)	RS1/16S473J
	R 351	(B,86,116)	RS1/16S182J	R 545	(B,57,53)	RS1/16S473J
С	R 352	(B,84,116)	RS1/16S182J	R 546	(B,65,36)	RS1/16S102J
	R 353	(B,88,116)	RS1/16S182J	R 547	(B,68,39)	RS1/16S473J
	R 354	(B,90,116)	RS1/16S182J	R 548	(B,62,39)	RS1/16S102J
	R 355	(A,86,116)	RS1/16S272J	R 549	(B,60,39)	RS1/16S223J
	R 356	(A,84,116)	RS1/16S272J	R 550	(B,62,43)	RS1/16S473J
	R 357	(A,88,116)	RS1/16S272J	R 551	(B,62,45)	RS1/16S473J
	R 358	(A,90,116)	RS1/16S272J	R 561	(A,147,123)	RS1/16S103J
	R 359	(A,82,116)	RS1/16S153J	R 562	(A,147,120)	RS1/16S102J
	R 360	(B,93,115)	RS1/16S103J	R 563	(A,143,127)	RS1/4SA271J
	R 361	(B,99,141)	RS1/16S331J	R 564	(A,143,130)	RS1/4SA271J
	R 362	(B,99,145)	RS1/16S103J	R 565	(A,133,115)	RS2PMFR47J
D	R 363	(B,99,143)	RS1/16S101J	R 566	(A,143,124)	RS1/16S103J
	R 364	(B,108,102)	RS1/16S472J	R 567	(B,131,112)	RS1/4SA271J
	R 365	(B,107,108)	RS1/16S472J	R 568	(A,124,120)	RS1/16S103J
	R 381	(B,104,141)	RS1/16S104J	R 569	(B,131,116)	RS1/4SA271J
	R 382	(B,104,143)	RS1/16S473J	R 570	(A,139,118)	RS1/16S103J
	R 383	(B,93,117)	RS1/16S472J	R 571	(B,138,124)	RS1/16S103J
	R 384	(B,100,109)	RS1/16S473J	R 572	(B,125,120)	RS1/16S222J
	R 401	(B,162,114)	RS1/16S681J	R 573	(B,125,118)	RS1/16S124J
	R 403	(B,162,117)	RS1/16S681J	R 574	(A,143,109)	RS1/16S514J
	R 404	(B,162,124)	RS1/16S681J	R 575	(A,144,107)	RS1/16S393J
Е	R 405	(B,162,126)	RS1/16S681J	R 576	(B,143,123)	RS1/16S472J
	R 406	(B,162,128)	RS1/16S681J	R 577	(B,143,121)	RS1/16S472J
	R 407	(B,162,130)	RS1/16S681J	R 578	(A,139,102)	RS1/16S104J
	R 451	(A,29,106)	RS1/16S223J	R 579	(B,132,109)	RS1/16S223J
	R 452	(A,25,100)	RD1/4PU152J	R 580	(B,127,109)	RS1/16S223J
_	R 453	(A,21,100)	RD1/4PU0R0J	R 581	(A,142,99)	RS1/16S104J
	R 454	(A,18,98)	RS1/16S472J	R 582	(A,143,107)	RS1/16S102J
	R 455	(A,20,88)	RS1/16S0R0J	R 583	(B,137,110)	RS1/16S102J
	R 461	(B,63,25)	RS1/16S0R0J	R 584	(A,137,110)	RS1/16S153J
	R 501	(A,111,31)	RAB4C101J	R 585	(A,135,110)	RS1/16S332J
	R 502	(A,109,43)	RS1/16S101J	R 591	(A,133,111)	RS1/16S104J
F	R 503	(A,110,43)	RS1/16S101J	R 594	(A,134,101)	RS1/16S102J
	R 504	(B,106,35)	RS1/16S0R0J	R 595	(A,126,107)	RS1/16S473J
	R 506	(A,97,29)	RS1/16S681J	R 596	(A,126,105)	RS1/16S102J
	R 507	(A,99,29)	RS1/16S681J DEH-P790BT/X	R 597	(A,133,109)	RS1/16S102J
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	Circ	uit Symbo	ol and No.	Part No.		Circ	cuit Symbo	l and No.	Part No.	
B	601			BT) RS1/16S104J		R 853	(A,40,35)		RS1/16S1R0J	
11	001	(A,113,71)	(179001,17900	D1) 1131/1031040		R 854	(A,40,33) (A,29,25)		RS1/16S391J	
D	602	(B,118,60)		RS1/16S681J		n 004	(A,29,23)		NO 1/1000910	
	603	(B,119,54)		RS1/16S473J		R 855	(A,34,29)		RD1/4PU272J	
	604	(B,119,34) (B,116,40)		RS1/16S473J		R 857	(B,40,24)		RS1/16S101J	Α
		,		RS1/16S472J		R 858	,		RS1/16S101J	
	605	(B,116,39)					(B,40,26)			
н	606	(A,121,23)		RS1/16S101J		R 871	(A,42,18)		RS1/16S471J	
_	007	(4.405.40)		DAD400041		R 872	(A,40,18)		RS1/16S471J	
	607	(A,135,48)		RAB4C681J		D 004	(4.445.00)		DAD404001	
	608	(B,133,56)		RS1/16S104J		R 881	(A,145,38)		RAB4C102J	_
	609	(B,148,56)		RS1/16S104J		R 885	(A,143,11)		RS1/16S103J	
	610	(A,138,60)		RAB4C681J		R 886	(A,153,14)		RS1/16S563J	
R	611	(B,143,72)		RS1/16S104J		R 891	(A,65,105)		RS1/16S271J	
						R 892	(A,68,105)		RS1/16S271J	
	612	(B,142,74)		RS1/16S104J			. <del>.</del>			
	613	(A,132,70)		RS1/16S104J		R 894	(B,55,101)		RS1/16S1R0J	
	614	(A,128,72)		RS1/16S473J		R 901	(A,29,50)		RS1/16S681J	В
	615		(P790BT,P7900	BT) RS1/16S103J		R 902	(A,26,50)		RS1/16S681J	
R	616	(A,124,73)		RS1/16S223J		R 903	(A,18,52)		RS1/16S223J	
						R 911	(A,18,87)		RS1/16S473J	
R	617	(A,119,70)		RS1/16S0R0J						
R	618	(B,145,44)		RS1/16S102J		R 921	(B,51,118)		RS1/16S104J	
R	619	(B,101,52)		RS1/16S681J		R 922	(B,42,120)		RS1/16S473J	
	621	(B,112,43)		RS1/16S104J		R 923	(B,53,116)		RS1/16S103J	
	623	(B,102,49)		RS1/16S104J		R 924	(B,42,118)		RS1/16S223J	
		, , ,				R 925	(B,38,122)		RS1/16S472J	
R	624	(A,138,56)		RS1/16S104J			( ,, ,			
	625	(B,116,42)		RS1/16S473J		R 932	(A,66,113)		RS1/16S103J	
	626	,	(P790BT P7900	BT) RS1/16S104J		R 951	(B,50,112)		RS1/16S153J	
	627		(P8950BT)	RS1/16S0R0J		R 952	(A,75,117)		RS1/16S472J	С
	630	(B,100,70) (B,97,52)	(1 0000B1)	RS1/16S681J		R 953	(A,71,114)		RS1/16S472J	C
	631	(B,114,49)		RS1/16S681J		R 954	(A,77,114) (A,77,114)		RS1/16S102J	
п	031	(6,114,49)		NO 1/100001J		n 904	(A,77,114)		NO 1/100 1020	
В	641	(A 127 02)		RS1/16S104J		R 955	(D 05 100)	(DOOEODT)	RS1/16S103J	
		(A,137,92)					(B,25,123)			
	651	(A,125,84)		RS1/16S183J		R 956	(B,25,128)	(P8950BT)	RS1/16S103J	
	652	(A,118,78)		RS1/16S102J						I
	653	(A,126,77)		RS1/16S473J	<u>C</u>	CAPACIT	ORS			
R	654	(B,132,77)		RS1/16S102J						
_						C 103	(B,16,131)		CKSRYB104K16	
	701	(B,130,30)		RS1/16S221J		C 106	(A,10,116)		CKSRYB104K16	
	702	(B,145,36)		RS1/16S221J		C 181	(A,63,84)		CKSRYB473K50	
	703	(B,122,29)		RS1/16S221J		C 201	(A,96,76)		CEJQ470M16	
R	704	(B,143,36)		RS1/16S221J		C 202	(B,100,76)		CKSRYB104K16	D
R	705	(B,122,31)		RS1/16S221J			, , , ,			
						C 203	(B,110,80)		CKSRYB474K10	
R	706	(A,141,32)		RAB4C682J		C 205	(A,105,76)		CEJQ100M50	
R	707	(B,143,31)		RS1/16S473J		C 206	(B,98,82)		CKSQYB225K10	
	708	(A,140,36)		RS1/16S104J		C 207	(B,89,84)		CKSQYB225K10	
	709	(B,145,40)		RS1/16S102J		C 208	(A,124,90)		CKSQYB225K10	
R	751	(A,19,73)		RD1/4PU102J		0 200	(71,121,00)		ONO Q I BEEON IO	-
• •		. , -,,		<del></del>		C 209	(A,127,88)		CKSQYB225K10	
R	801	(B,103,18)		RS1/16S222J		C 210	(B,103,83)		CKSRYB224K16	
	802	(B,106,11)		RS1/16S222J		C 211	(A,91,82)		CKSRYB224K16	
	803	(B,106,11) (B,106,13)		RS1/16S222J						
	804	(B,126,14)		RS1/16S222J		C 212	(B,98,96)		CKSRYB105K6R3	
	805	(B,126,14) (B,126,16)		RS1/16S222J		C 213	(B,93,91)		CKSRYB105K6R3	Е
п	603	(0,120,10)		N3 1/ 1032223			(5.55.5.1)		01/051/51/555	
ь	906	(D 106 10)		RS1/16S104J		C 214	(B,98,94)		CKSRYB105K6R3	
	806	(B,126,18)				C 215	(B,95,91)		CKSRYB105K6R3	
	807	(B,129,17)		RS1/16S104J		C 216	(B,109,91)		CKSYB475K16	
	808	(B,103,16)		RS1/16S222J		C 217	(A,91,84)		CKSYB475K16	
	821	(B,41,57)		RS1/16S331J		C 218	(B,109,96)		CKSYB475K16	_
R	822	(B,36,57)		RS1/16S331J						
						C 219	(A,92,87)		CKSYB475K16	
	824	(B,41,54)		RS1/16S473J		C 220	(B,104,94)		CKSYB475K16	
	825	(B,47,54)		RS1/16S1R0J		C 221	(A,94,92)		CKSYB475K16	
R	831	(B,89,13)		RS1/16S331J		C 222	(A,97,100)		CEJQ100M50	
	841	(A,52,44)		RS1/16S472J		C 223	(B,108,84)		CKSRYB104K16	
	842	(A,51,42)		RS1/16S102J			, , , ,			-
						C 241	(B,87,91)		CKSRYB224K16	F
R	843	(B,49,40)		RS1/16S472J		C 242	(B,82,100)		CKSRYB104K16	
	851	(A,18,35)		RS1/16S331J		C 243	(A,83,89)		CEJQ470M16	
	852	(A,21,35)		RS1/16S331J		- L-TO	(7.1,00,00)		SEGGT/ OWITO	
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					/Cロ-ピ/90B	I/AIV/UU				

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	Circuit Symbol and No.	<u>Part No.</u>	·	cuit Symbol and No.	Part No.
C 254	(A,127,86)	CCSRCH470J50	C 454	(A,21,108)	CEJQ101M16
C 261	(B,63,95)	CKSQYB225K10	C 461	(B,43,77)	CKSYB475K16
C 262	(B,70,89)	CKSQYB225K10	C 463	(B,43,66)	CKSRYB103K50
C 263	(B,68,98)	CKSQYB225K10	C 464	(A,47,69)	CEJQ220M25
C 264	(B,63,92)	CKSQYB225K10	C 501	(B,106,37)	CKSRYB104K16
C 265	(A,59,96)	CKSQYB225K10	C 506	(B,97,36)	CKSRYB104K16
C 266	(A,59,90)	CKSQYB225K10	C 511	(B,100,36)	CKSRYB104K16
	,			,	
C 267	(B,79,96)	CKSQYB225K10	C 531	(A,58,68)	CEJQ330M16
C 268	(B,77,91)	CKSQYB225K10	C 532	(A,63,79)	CKSRYB104K16
C 269	(A,64,98)	CCSRCH470J50	C 533	(B,45,49)	CKSRYB682K50
C 270 C 271	(A,64,87) (A,67,98)	CCSRCH470J50 CCSRCH470J50	C 534 C 535	(B,47,49) (B,55,42)	CKSRYB331K50 CKSQYB225K10
0 271	(A,07,30)	00311011470030	0 333	(0,33,42)	ONOQ10223N10
C 272	(A,67,84)	CCSRCH470J50	C 536	(B,54,52)	CKSRYB103K50
C 273	(B,74,96)	CCSRCH470J50	C 543	(B,63,48)	CCSRCH470J50
C 274	(B,72,92)	CCSRCH470J50	C 544	(B,64,39)	CKSRYB104K16
C 275	(A,71,96)	CCSRCH470J50	C 545	(B,66,39)	CKSRYB104K16
C 276	(A,70,84)	CCSRCH470J50	C 564	(A,139,103)	CKSRYB103K50
C 277	(A,59,94)	CKSQYB225K10	C 566	(A,147,116) 10 μF	CCG1223
C 277	(A,59,94) (A,59,92)	CKSQYB225K10	C 591	(A,147,116) 10 μF (A,133,104)	CKSRYB473K50
C 279	(A,75,96)	CKSRYB103K50	C 591	(A, 130, 104) (A, 130, 111)	CKSRYB473K50
C 280	(A,86,111)	CEJQ100M50	C 602	(B,100,61)	CKSRYB103K50
C 281	(A,85,104)	CEJQ220M25	C 603	(A,103,62)	CEJQ100M50
C 282	(A,77,101)	CEJQ101M16	C 604	(B,115,59)	CCSRCH100D50
C 283	(A,67,73)	CKSRYB104K16	C 605	(B,115,55)	CCSRCH100D50
C 284	(A,68,67)	CKSRYB104K16 CKSRYB104K16	C 606 C 607	(B,144,51)	CCSRCH470J50 CKSRYB102K50
C 285 C 301	(A,74,79) (A,119,109)	CKSRYB104K16 CEJQ100M50	C 607 C 651	(A,127,72) (A,120,81)	CKSRYB102K50 CKSRYB105K10
0 301	(113,103)	OLUQ TUUNUU	0 001	(7,120,01)	OLOUT LIBOUR IO
C 302	(A,119,102)	CEJQ100M50	C 653	(A,124,77)	CKSRYB104K16
C 303	(A,112,109)	CEJQ100M50	C 702	(B,141,27)	CKSRYB104K16
C 304	(A,112,102)	CEJQ100M50	C 711	(B,94,23)	CKSRYB474K10
C 305	(A,105,109)	CEJQ100M50	C 712	(B,93,13)	CKSRYB103K50
C 306	(A,105,102)	CEJQ100M50	C 713	(A,138,19)	CEJQ220M25
C 321	(A,97,106)	CEJQ220M25	C 751	(A,19,66)	CKSRYB473K50
C 351	(B,86,121)	CKSRYB474K16	C 751	(A, 19,00) (A, 15,75)	CKSRYB102K50
C 352	(B,84,121)	CKSRYB474K16	C 753	(A,15,75) (A,25,75)	CEJQ221M10
C 353	(B,89,121)	CKSRYB474K16	C 821	(A,50,45)	CKSRYB473K50
C 354	(B,91,121)	CKSRYB474K16	C 831	(A,88,9)	CKSRYF104Z50
C 356	(A,97,113)	CEJQ100M50	C 842	(B,50,29)	CKSRYB473K50
C 357	(B,94,125)	CKSQYB225K10	C 851	(B,31,41)	CKSRYB104K16
C 358	(B,94,121)	CKSQYB225K10	C 852	(A,44,39)	CEJQ470M25
C 359 C 360	(B,79,136) (A,63,125) 3 300 μF/16	CKSRYB104K16 V CCH1486	C 853 C 854	(A,36,39)	CEJQ101M16 CKSRYB104K16
U 360	(A,00,120) 3 300 µF/16	v 00111400	U 854	(B,33,39)	UNUN 1 D 104N 10
C 361	(B,87,125)	CKSQYB474K25	C 855	(A,37,19)	CCSRCH331J50
C 362	(B,84,125)	CKSQYB474K25	C 856	(B,34,26)	CKSRYB103K50
C 363	(B,89,125)	CKSQYB474K25	C 857	(A,44,31)	CEJQ470M25
C 364	(B,92,125)	CKSQYB474K25	C 858	(A,44,22) 4.7 μF	CCG1111
C 367	(A,97,119)	CEHAR330M10	C 872	(B,29,12)	CKSRYB224K10
C 402	(A,154,113)	CEJQ101M16	C 873	(B 31 12)	CKSRYB104K16
C 402	(A, 154, 113) (B, 163, 140)	CESQ101M16 CKSRYB103K50	C 873 C 874	(B,31,12) (A,35,13)	CKSRYB104K16 CEJQ220M25
C 403	(B, 163, 140) (A, 157, 104)	CEJQ470M10	C 874	(B,148,31)	CCSRCH102J50
C 404	(B,168,105)	CKSRYB103K50	C 882	(B,150,20)	CCSRCH101J50
C 408	(B,168,109)	CKSRYB103K50	C 883	(B,150,27)	CCSRCH101J50
	,,			· · · /	
C 411	(B,160,93)	CKSRYB224K16	C 884	(A,153,17)	CKSRYB103K50
C 412	(B,160,91)	CKSRYB224K16	C 885	(A,143,18)	CKSRYB105K10
C 431	(B,151,77)	CKSYB475K16	C 891	(B,71,101)	CKSRYB224K16
C 432	(B,152,88)	CKSRYB103K50	C 892	(B,65,103)	CKSRYB103K50
C 433	(A,157,89)	CEJQ220M25	C 893	(A,59,101)	CEJQ100M50
	(A,35,90) 470 μF/16 V	CCH1339	C 901	(A,38,45) 2 200 μF/16 V	CCH1405
C 451	U 1.00.001 T/U UI / IU V	00111000	0 301	(11,00,70) 2 200 pi / 10 V	30111700
C 451 C 452		CEHAS101M10		(A,19,48)	CKSRYB103K50
C 451 C 452 C 453	(A,25,91) (A,16,91)		C 903 C 904	(A,19,48) (A,18,57)	CKSRYB103K50 CKSRYB104K25

	Circu	5 <u>uit Symbol</u>	■ and No.	6 Part No.		<u>Circ</u>	7 <b>=</b> cuit Symbol and No	<u>).</u>	Part No.	•
	905 911	(A,25,60) (A,32,80) 10	00 μF/25 V	CEJQ101M16 CCH1316	<u> </u>	RESISTO	ORS.			
С	912	(A,18,83)		CKSRYB103K50		R 1801	(A,87,32)		RS1/16S222J	^
С	913	(A,25,83)		CEHAS101M10		R 1802	(A,86,32)		RS1/16S222J	Α
С	921	(B,38,120)		CKSRYB104K25		R 1803	(B,129,39)		RS1/16S333J	
	931	(A,66,116)		CKSRYB473K50		R 1811	(B,41,26)		RS1/16S103J	
С	932	(A,66,114)		CKSQYB105K16		R 1812	(B,63,30)		RS1/16S333J	
	941 951	(A,79,113) (B,47,112)		CKSRYB473K50 CKSRYB104K25		R 1813	(B,63,28)		RS1/16S103J	Ī
O	331	(0,47,112)		OKOTTI DIOTIKES		R 1814	(B,41,24)		RS1/16S102J	_
Г	5					R 1815 R 1816	(B,60,28) (B,68,27)		RS1/16S332J RS1/16S102J	
	3					R 1818	(B,63,32)		RS1/16S1023	
	nit Nur		ovboord H	mit		R 1819	(B,60,32)		RS1/16S222J	
U	nit Nan	ne : Ke	eyboard U	IIIL		R 1831	(B,45,11)		RS1/16S681J	В
М	ISCELL /	ANEOUS				R 1832	(B,36,28)		RS1/16S271J	
IVI	ISCLLLA	AINLOUS				R 1834	(B,35,21)		RS1/16S681J	
ıc	1901	(B,95,22) IC		PEG303A		R 1835	(B,45,10)		RS1/16S681J	
	1921	(A,145,26) I		PD8172A		D 4000	(D. 00. 00)		D04/4000044	
	, 1021			50BT) PD8171A		R 1836	(B,26,22)		RS1/16S821J	
IC	1931	(A,28,36) IC		GP1UX31RK		R 1837	(B,28,21)		RS1/16S821J	I
	1951	(B,111,18) IC		S-1200B33-M5		R 1838 R 1840	(B,31,28) (B,45,14)		RS1/16S821J RS1/16S681J	
Q	1831	(B,38,27) Tra	ansistor	DTC123JU		R 1841	(B,26,28)		RS1/16S271J	
O	1832	(B.33.27) Die	gital Transistor	DTC143FUA		D 4040	(D. 05, 00)		D04/400004 I	
	1833	(B,28,27) Tra	•	DTC123JU		R 1843	(B,25,22)		RS1/16S681J	
	1834	(B,39,15) Tra		UMD3N		R 1844 R 1853	(B,45,13)		RS1/16S681J	С
	1851	(B,20,30) Tra		UMD3N		R 1854	(B,20,27) (B,22,27)		RS1/16S821J RS1/16S821J	O
Q	1852	(B,24,27) Di	gital Transistor	DTC143EUA		R 1901	(B,84,30)		RS1/16S103J	
Q	1961	(B,116,14) T	ransistor	2SC4617		D 1000	(D 00 05)		DC4/4004701	
	1962	(B,120,16) T		2SD1664		R 1902 R 1903	(B,80,25) (B,78,18)		RS1/16S473J RS1/16S154J	
D	1831	(A,99,7) LED	)	CL-197HB1-D(CDE)		R 1903	(B,80,28)		RAB4C102J	_
D	1832	(A,8,36) LED	)	CL-197HB1-D(CDE)		R 1905	(B,84,15)		RS1/16S104J	
D	1833	(A,156,6) LE	ED	CL-197HB1-D(CDE)		R 1906	(B,92,33)		RAB4C473J	
D	1834	(A,137,7) LE	ED .	CL-197HB1-D(CDE)		R 1907	(B,94,10)		RAB4C102J	
	1835	(A,82,7) LED		CL-197HB1-D(CDE)		R 1908	(B,101,11)		RS1/16S221J	
	1836	(A,26,23) LE		CL-197HB1-D(CDE)		R 1909	(B,96,33)		RAB4C473J	
	1837	(A,124,7) LE		CL-197HB1-D(CDE)		R 1910	(B,145,15)		RAB4C101J	D
D	1838	(A,8,10) LED	)	CL-197HB1-D(CDE)		R 1911	(A,146,17)		RAB4C101J	
	1839	(A,110,7) LE		CL-197HB1-D(CDE)		R 1912	(B,141,15)		RAB4C101J	
	1840	(A,54,40) LE		CL-197HB1-D(CDE)		R 1913	(A,104,33)		RS1/16S101J	
	1841	(A,36,22) LE		CL-197HB1-D(CDE)		R 1914	(B,152,36)		RS1/16S101J	
	1842 1843	(A,54,4) LEC		CL-197HB1-D(CDE) CL-197HB1-D(CDE)		R 1915	(B,137,15)		RAB4C101J	
D	1043	(A,72,22) LE	ט:	CL-19/HB1-D(CDE)		R 1916	(A,138,17)		RAB4C101J	
	1851	(A,16,23) LE		CL-197HB1-D(CDE)		R 1917	(A,129,18)		RAB4C101J	
	1901	(B,80,18) Di		1SS355		R 1918	(B,141,28)		RAB4C101J	
	1951	(B,109,13) Ir		CTF1617		R 1919	(A,99,32)		RAB4C101J	
	1961	(B,127,14) Ir		CTF1617		R 1920	(B,101,33)		RAB4C101J	Е
11	H1961	(B,114,12) T	nermistor	CCX1037		R 1931	(B,41,39)		RS1/16S101J	_
	1901	,		16.000 MHz CSS1616		R 1932	(B,40,37)		RS1/16S103J	
	1801	(A,149,7) Pu		CSG1155		R 1933	(B,44,35)		RS1/16S2R2J	
	1811	(A,54,22) Sv		CSX1120		R 1951	(B,114,17)		RS1/16S222J	
	1831 1832	(A,95,7) Pus (A,8,39) Pus		CSG1155		R 1961	(B,127,12)		RS1/16S333J	_
3	1002	(A,0,39) PUS	on Switch	CSG1155		R 1962	(B,116,17)		RS1/16S183J	
	1833	(A,159,7) Pu		CSG1155		R 1963	(B,114,14)		RS1/16S563J	
	1834	(A,133,7) Pu		CSG1155		R 1964	(B,116,20)		RS1/16S392J	
	1835	(A,86,7) Pus		CSG1155		R 1965	(A,92,32)		RAB4C101J	
	1836	(A,26,27) Pu		CSG1155		R 1966	(B,135,20)		RS1/16S5101D	
S	1837	(A,120,7) Pu	isn Switch	CSG1155		R 1967	(B,132,20)		RS1/16S0R0J	F
S	1838	(A,8,6) Push	Switch	CSG1155		רוס אם א	ODE			
	1839	(A,114,7) Pu		CSG1155	<u> </u>	CAPACIT	<u>042</u>			
		OEL Unit		MXS8260						

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	Circ	cuit Symbol and No.	Part No.	Cir	cuit Symbol and No.	Part No.
	<u> </u>	dit Oyimbol alla Itol	<u>r art rtor</u>	<u> </u>	can cymbol and ito	<u>r art mor</u>
	C 1831	(A,100,6)	CKSRYF104Z50	R 1	(A,22,12)	RS1/16S334J
			CKSRYF104Z50			
	C 1832	(A,8,34)		R 2	(A,32,32)	RS1/16S103J
	C 1833	(A,154,6)	CKSRYF104Z50	R 3	(A,35,26)	RS1/16S473J
	C 1834	(A,141,8)	CKSRYF104Z50	R 4	(A,28,29)	RS1/16S103J
Α						
	C 1835	(A,81,7)	CKSRYF104Z50	R 5	(A,20,24)	RS1/16S103J
	C 1836	(A,26,21)	CKSRYF104Z50	R 7	(A,35,23)	RS1/16S103J
	C 1837	(A,125,6)	CKSRYF104Z50	R 8	(A,32,23)	RS1/16S101J
	C 1838	(A,8,12)	CKSRYF104Z50	R 9	(A,32,20)	RS1/16S103J
_	C 1839	(A,109,6)	CKSRYF104Z50	R 21	(A,33,39)	RS1/16S101J
	C 1840	(A,58,40)	CKSRYF104Z50	R 22	(B,21,38)	RS1/16S473J
		, , ,			, , ,	
	0 4044	(A 05 00)	01(00)(5104750	D 00	(4.00.07)	D04/4004701
	C 1841	(A,35,23)	CKSRYF104Z50	R 23	(A,23,37)	RS1/16S473J
	C 1842	(A,51,5)	CKSRYF104Z50	R 24	(B,24,40)	RS1/16S101J
	C 1843		CKSRYF104Z50	R 25	,	RS1/16S101J
		(A,74,23)			(A,24,40)	
	C 1851	(A,15,23)	CKSRYF104Z50	R 26	(A,21,41)	RS1/16S332J
_	C 1901	(A,89,22)	CKSRYB103K50	R 27	(A,21,43)	RS1/16S105J
В	0 1001	(11,00,22)	ONOTTI DI TOONOO	11 21	(71,21,40)	1101/1001000
	C 1902	(B,77,18)	CKSRYF104Z50	R 28	(B,20,43)	RS1/16S332J
	C 1903	(B,107,20)	CKSRYB103K50	R 29	(B,20,40)	RS1/16S105J
		,			,	
	C 1921	(B,152,31)	CKSRYB103K50	R 36	(A,15,5)	RS1/16S103J
	C 1931	(B,38,37)	CKSYB106K10	R 37	(A,14,7)	RS1/16S104J
		, , ,				
_	C 1951	(B,111,20)	CKSRYB105K10	R 41	(A,8,22)	RS1/16S103J
	C 1952	(B,111,15)	CKSRYB105K10	R 43	(A,10,21)	RS1/16S393J
				_		
	C 1953	(B,108,15)	CKSRYB105K10	R 44	(A,8,20)	RS1/16S393J
	C 1963	(A,112,24)	CKSRYB104K25	R 45	(A,14,21)	RAB4C101J
	C 1964	(B,119,20)	CKSRYB104K25	R 46		RS1/16S103J
					(A,4,18)	
	C 1965	(B,121,20)	CKSRYB104K25	R 47	(A,16,15)	RS1/16S203J
С						
O	C 1066	(D 106 00)	CKCDVD104K0E	D 40	(A 10 10)	DC1/16C000 I
	C 1966	(B,126,20)	CKSRYB104K25	R 48	(A,18,18)	RS1/16S223J
				R 49	(A,7,8)	RS1/16S203J
				R 50	(A,14,8)	RS1/16S473J
	<b>D</b>					
		_		R 51	(A,20,28)	RS1/16S105J
	Unit Nu	mber: CWN2339		R 52	(A,7,5)	RS1/16S223J
					( , , , - ,	
	Unit Na	me : Bluetooth	Unit			
_	• • • • • • • • • • • • • • • • • • • •			R 57	(B,15,15)	RAB4C101J
				D C0	(A 00 0c)	RS1/16S821J
				H 58	(A.3U.30)	no i/ ibooz ij
	MISCELL	ANEOUS		R 58	(A,30,36)	
	MISCELL	ANEOUS		R 66	(B,18,21)	RS1/16S103J
					,	
	MISCELL IC 21	(A,29,43) IC	TC74VHC02FTS1	R 66 R 67	(B,18,21) (B,16,24)	RS1/16S103J RS1/16S103J
	IC 21	(A,29,43) IC		R 66	(B,18,21)	RS1/16S103J
	IC 21 IC 22	(A,29,43) IC (A,23,43) IC	TC7PAU04FU	R 66 R 67 R 68	(B,18,21) (B,16,24) (B,12,19)	RS1/16S103J RS1/16S103J RS1/16S473J
D	IC 21 IC 22 IC 23	(A,29,43) IC (A,23,43) IC (B,22,40) IC	TC7PAU04FU TC7PAU04FU	R 66 R 67	(B,18,21) (B,16,24)	RS1/16S103J RS1/16S103J
D	IC 21 IC 22 IC 23	(A,29,43) IC (A,23,43) IC (B,22,40) IC	TC7PAU04FU TC7PAU04FU	R 66 R 67 R 68 R 69	(B,18,21) (B,16,24) (B,12,19) (B,11,24)	RS1/16S103J RS1/16S103J RS1/16S473J RS1/16S103J
D	IC 21 IC 22 IC 23 IC 36	(A,29,43) IC (A,23,43) IC (B,22,40) IC (A,11,14) IC	TC7PAU04FU TC7PAU04FU AK2301A	R 66 R 67 R 68 R 69 R 70	(B,18,21) (B,16,24) (B,12,19) (B,11,24) (B,7,24)	RS1/16S103J RS1/16S103J RS1/16S473J RS1/16S103J RS1/16S103J
D	IC 21 IC 22 IC 23	(A,29,43) IC (A,23,43) IC (B,22,40) IC	TC7PAU04FU TC7PAU04FU	R 66 R 67 R 68 R 69	(B,18,21) (B,16,24) (B,12,19) (B,11,24) (B,7,24) (B,9,19)	RS1/16S103J RS1/16S103J RS1/16S473J RS1/16S103J RS1/16S103J RS1/16S473J
D	IC 21 IC 22 IC 23 IC 36	(A,29,43) IC (A,23,43) IC (B,22,40) IC (A,11,14) IC	TC7PAU04FU TC7PAU04FU AK2301A	R 66 R 67 R 68 R 69 R 70	(B,18,21) (B,16,24) (B,12,19) (B,11,24) (B,7,24) (B,9,19)	RS1/16S103J RS1/16S103J RS1/16S473J RS1/16S103J RS1/16S103J RS1/16S473J
D	IC 21 IC 22 IC 23 IC 36 IC 51	(A,29,43) IC (A,23,43) IC (B,22,40) IC (A,11,14) IC (A,16,27) IC	TC7PAU04FU TC7PAU04FU AK2301A AN6123MS	R 66 R 67 R 68 R 69 R 70 R 71 R 72	(B,18,21) (B,16,24) (B,12,19) (B,11,24) (B,7,24) (B,9,19) (B,3,17)	RS1/16S103J RS1/16S103J RS1/16S473J RS1/16S103J RS1/16S103J RS1/16S473J RS1/16S103J
D	IC 21 IC 22 IC 23 IC 36 IC 51	(A,29,43) IC (A,23,43) IC (B,22,40) IC (A,11,14) IC (A,16,27) IC (B,10,13) IC	TC7PAU04FU TC7PAU04FU AK2301A AN6123MS PCM1742KE	R 66 R 67 R 68 R 69 R 70 R 71	(B,18,21) (B,16,24) (B,12,19) (B,11,24) (B,7,24) (B,9,19)	RS1/16S103J RS1/16S103J RS1/16S473J RS1/16S103J RS1/16S103J RS1/16S473J
D	IC 21 IC 22 IC 23 IC 36 IC 51 IC 56 IC 66	(A,29,43) IC (A,23,43) IC (B,22,40) IC (A,11,14) IC (A,16,27) IC (B,10,13) IC (B,12,21) IC	TC7PAU04FU TC7PAU04FU AK2301A AN6123MS PCM1742KE NJM4558V	R 66 R 67 R 68 R 69 R 70 R 71 R 72	(B,18,21) (B,16,24) (B,12,19) (B,11,24) (B,7,24) (B,9,19) (B,3,17)	RS1/16S103J RS1/16S103J RS1/16S473J RS1/16S103J RS1/16S103J RS1/16S473J RS1/16S103J
	IC 21 IC 22 IC 23 IC 36 IC 51	(A,29,43) IC (A,23,43) IC (B,22,40) IC (A,11,14) IC (A,16,27) IC (B,10,13) IC	TC7PAU04FU TC7PAU04FU AK2301A AN6123MS PCM1742KE	R 66 R 67 R 68 R 69 R 70 R 71 R 72 R 73	(B,18,21) (B,16,24) (B,12,19) (B,11,24) (B,7,24) (B,9,19) (B,3,17) (B,5,19)	RS1/16S103J RS1/16S103J RS1/16S473J RS1/16S103J RS1/16S103J RS1/16S473J RS1/16S103J RS1/16S103J
D	IC 21 IC 22 IC 23 IC 36 IC 51 IC 56 IC 66 Q 1	(A,29,43) IC (A,23,43) IC (B,22,40) IC (A,11,14) IC (A,16,27) IC (B,10,13) IC (B,12,21) IC (A,30,13) Chip Transistor	TC7PAU04FU TC7PAU04FU AK2301A AN6123MS PCM1742KE NJM4558V DTC124EUA	R 66 R 67 R 68 R 69 R 70 R 71 R 72 R 73	(B,18,21) (B,16,24) (B,12,19) (B,11,24) (B,7,24) (B,9,19) (B,3,17) (B,5,19) (A,4,30)	RS1/16S103J RS1/16S103J RS1/16S473J RS1/16S103J RS1/16S103J RS1/16S103J RS1/16S103J RS1/16S103J
	IC 21 IC 22 IC 23 IC 36 IC 51 IC 56 IC 66 Q 1 Q 2	(A,29,43) IC (A,23,43) IC (B,22,40) IC (A,11,14) IC (A,16,27) IC (B,10,13) IC (B,12,21) IC (A,30,13) Chip Transistor (A,34,29) Chip Transistor	TC7PAU04FU TC7PAU04FU AK2301A AN6123MS PCM1742KE NJM4558V DTC124EUA DTC124EUA	R 66 R 67 R 68 R 69 R 70 R 71 R 72 R 73	(B,18,21) (B,16,24) (B,12,19) (B,11,24) (B,7,24) (B,9,19) (B,3,17) (B,5,19) (A,4,30) (B,5,31)	RS1/16S103J RS1/16S103J RS1/16S473J RS1/16S473J RS1/16S103J RS1/16S103J RS1/16S103J RS1/16S101J RS1/16S101J
	IC 21 IC 22 IC 23 IC 36 IC 51 IC 56 IC 66 Q 1	(A,29,43) IC (A,23,43) IC (B,22,40) IC (A,11,14) IC (A,16,27) IC (B,10,13) IC (B,12,21) IC (A,30,13) Chip Transistor	TC7PAU04FU TC7PAU04FU AK2301A AN6123MS PCM1742KE NJM4558V DTC124EUA	R 66 R 67 R 68 R 69 R 70 R 71 R 72 R 73 R 76 R 77 R 78	(B,18,21) (B,16,24) (B,12,19) (B,11,24) (B,7,24) (B,9,19) (B,3,17) (B,5,19) (A,4,30)	RS1/16S103J RS1/16S103J RS1/16S473J RS1/16S103J RS1/16S103J RS1/16S103J RS1/16S103J RS1/16S103J
	IC 21 IC 22 IC 23 IC 36 IC 51 IC 56 IC 66 Q 1 Q 2	(A,29,43) IC (A,23,43) IC (B,22,40) IC (A,11,14) IC (A,16,27) IC (B,10,13) IC (B,12,21) IC (A,30,13) Chip Transistor (A,34,29) Chip Transistor	TC7PAU04FU TC7PAU04FU AK2301A AN6123MS PCM1742KE NJM4558V DTC124EUA DTC124EUA	R 66 R 67 R 68 R 69 R 70 R 71 R 72 R 73 R 76 R 77 R 78	(B,18,21) (B,16,24) (B,12,19) (B,11,24) (B,7,24) (B,9,19) (B,3,17) (B,5,19) (A,4,30) (B,5,31) (A,6,32)	RS1/16S103J RS1/16S103J RS1/16S473J RS1/16S103J RS1/16S103J RS1/16S103J RS1/16S103J RS1/16S101J RS1/16S101J RS1/16S101J
	IC 21 IC 22 IC 23 IC 36 IC 51 IC 56 IC 66 Q 1 Q 2 Q 21	(A,29,43) IC (A,23,43) IC (B,22,40) IC (A,11,14) IC (A,16,27) IC (B,10,13) IC (B,12,21) IC (A,30,13) Chip Transistor (A,34,29) Chip Transistor (B,27,40) Transistor	TC7PAU04FU TC7PAU04FU AK2301A AN6123MS PCM1742KE NJM4558V DTC124EUA DTC124EUA UMD2N	R 66 R 67 R 68 R 69 R 70 R 71 R 72 R 73 R 76 R 77 R 78 R 79	(B,18,21) (B,16,24) (B,12,19) (B,11,24) (B,7,24) (B,9,19) (B,3,17) (B,5,19) (A,4,30) (B,5,31) (A,6,32) (B,11,32)	RS1/16S103J RS1/16S103J RS1/16S473J RS1/16S473J RS1/16S103J RS1/16S103J RS1/16S103J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S0R0J
	IC 21 IC 22 IC 23 IC 36 IC 51 IC 56 IC 66 Q 1 Q 2 Q 21	(A,29,43) IC (A,23,43) IC (B,22,40) IC (A,11,14) IC (A,16,27) IC (B,10,13) IC (B,12,21) IC (A,30,13) Chip Transistor (A,34,29) Chip Transistor (B,27,40) Transistor	TC7PAU04FU TC7PAU04FU AK2301A AN6123MS  PCM1742KE NJM4558V DTC124EUA DTC124EUA UMD2N  DTC124EUA	R 66 R 67 R 68 R 69 R 70 R 71 R 72 R 73 R 76 R 77 R 78	(B,18,21) (B,16,24) (B,12,19) (B,11,24) (B,7,24) (B,9,19) (B,3,17) (B,5,19) (A,4,30) (B,5,31) (A,6,32)	RS1/16S103J RS1/16S103J RS1/16S473J RS1/16S103J RS1/16S103J RS1/16S103J RS1/16S103J RS1/16S101J RS1/16S101J RS1/16S101J
	IC 21 IC 22 IC 23 IC 36 IC 51 IC 56 IC 66 Q 1 Q 2 Q 21 Q 22 Q 23	(A,29,43) IC (A,23,43) IC (B,22,40) IC (A,11,14) IC (A,16,27) IC (B,10,13) IC (B,12,21) IC (A,30,13) Chip Transistor (A,34,29) Chip Transistor (B,27,40) Transistor (B,31,43) Chip Transistor (B,27,43) Transistor	TC7PAU04FU TC7PAU04FU AK2301A AN6123MS  PCM1742KE NJM4558V DTC124EUA DTC124EUA UMD2N  DTC124EUA UMD2N	R 66 R 67 R 68 R 69 R 70 R 71 R 72 R 73 R 76 R 77 R 78 R 79	(B,18,21) (B,16,24) (B,12,19) (B,11,24) (B,7,24) (B,9,19) (B,3,17) (B,5,19) (A,4,30) (B,5,31) (A,6,32) (B,11,32)	RS1/16S103J RS1/16S103J RS1/16S473J RS1/16S473J RS1/16S103J RS1/16S103J RS1/16S103J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S0R0J
	IC 21 IC 22 IC 23 IC 36 IC 51 IC 56 IC 66 Q 1 Q 2 Q 21	(A,29,43) IC (A,23,43) IC (B,22,40) IC (A,11,14) IC (A,16,27) IC (B,10,13) IC (B,12,21) IC (A,30,13) Chip Transistor (A,34,29) Chip Transistor (B,27,40) Transistor	TC7PAU04FU TC7PAU04FU AK2301A AN6123MS  PCM1742KE NJM4558V DTC124EUA DTC124EUA UMD2N  DTC124EUA	R 66 R 67 R 68 R 69 R 70 R 71 R 72 R 73 R 76 R 77 R 78 R 79 R 80	(B,18,21) (B,16,24) (B,12,19) (B,11,24) (B,7,24) (B,9,19) (B,3,17) (B,5,19) (A,4,30) (B,5,31) (A,6,32) (B,11,32) (A,3,33)	RS1/16S103J RS1/16S103J RS1/16S473J RS1/16S473J RS1/16S103J RS1/16S103J RS1/16S103J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S0R0J RS1/16S101J
•	IC 21 IC 22 IC 23 IC 36 IC 51 IC 56 IC 66 Q 1 Q 2 Q 21 Q 22 Q 23 Q 36	(A,29,43) IC (A,23,43) IC (B,22,40) IC (A,11,14) IC (A,16,27) IC (B,10,13) IC (B,12,21) IC (A,30,13) Chip Transistor (A,34,29) Chip Transistor (B,27,40) Transistor (B,27,43) Chip Transistor (B,27,43) Transistor (A,17,8) Chip Transistor	TC7PAU04FU TC7PAU04FU AK2301A AN6123MS  PCM1742KE NJM4558V DTC124EUA DTC124EUA UMD2N  DTC124EUA UMD2N DTC124EUA UMD2N DTC124EUA	R 66 R 67 R 68 R 69 R 70 R 71 R 72 R 73 R 76 R 77 R 78 R 79 R 80	(B,18,21) (B,16,24) (B,12,19) (B,11,24) (B,7,24) (B,9,19) (B,3,17) (B,5,19) (A,4,30) (B,5,31) (A,6,32) (B,11,32) (A,3,33) (B,10,29)	RS1/16S103J RS1/16S103J RS1/16S473J RS1/16S473J RS1/16S103J RS1/16S103J RS1/16S103J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S0R0J RS1/16S101J RS1/16S101J
	IC 21 IC 22 IC 23 IC 36 IC 51 IC 56 IC 66 Q 1 Q 2 Q 21 Q 22 Q 23 Q 36 Q 37	(A,29,43) IC (A,23,43) IC (B,22,40) IC (A,11,14) IC (A,16,27) IC  (B,10,13) IC (B,12,21) IC (A,30,13) Chip Transistor (A,34,29) Chip Transistor (B,27,40) Transistor (B,27,43) Transistor (B,27,43) Transistor (A,17,8) Chip Transistor (A,16,12) Chip Transistor	TC7PAU04FU TC7PAU04FU AK2301A AN6123MS  PCM1742KE NJM4558V DTC124EUA DTC124EUA UMD2N  DTC124EUA UMD2N  DTC124EUA UMD2N DTC124EUA DTC124EUA DTC124EUA	R 66 R 67 R 68 R 69 R 70 R 71 R 72 R 73 R 76 R 77 R 78 R 79 R 80	(B,18,21) (B,16,24) (B,12,19) (B,11,24) (B,7,24) (B,9,19) (B,3,17) (B,5,19) (A,4,30) (B,5,31) (A,6,32) (B,11,32) (A,3,33) (B,10,29) (B,16,29)	RS1/16S103J RS1/16S103J RS1/16S473J RS1/16S473J RS1/16S103J RS1/16S103J RS1/16S103J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S0R0J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J
•	IC 21 IC 22 IC 23 IC 36 IC 51 IC 56 IC 66 Q 1 Q 2 Q 21 Q 22 Q 23 Q 36	(A,29,43) IC (A,23,43) IC (B,22,40) IC (A,11,14) IC (A,16,27) IC (B,10,13) IC (B,12,21) IC (A,30,13) Chip Transistor (A,34,29) Chip Transistor (B,27,40) Transistor (B,27,43) Chip Transistor (B,27,43) Transistor (A,17,8) Chip Transistor	TC7PAU04FU TC7PAU04FU AK2301A AN6123MS  PCM1742KE NJM4558V DTC124EUA DTC124EUA UMD2N  DTC124EUA UMD2N DTC124EUA UMD2N DTC124EUA	R 66 R 67 R 68 R 69 R 70 R 71 R 72 R 73 R 76 R 77 R 78 R 79 R 80	(B,18,21) (B,16,24) (B,12,19) (B,11,24) (B,7,24) (B,9,19) (B,3,17) (B,5,19) (A,4,30) (B,5,31) (A,6,32) (B,11,32) (A,3,33) (B,10,29)	RS1/16S103J RS1/16S103J RS1/16S473J RS1/16S473J RS1/16S103J RS1/16S103J RS1/16S103J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S0R0J RS1/16S101J RS1/16S101J
•	IC 21 IC 22 IC 23 IC 36 IC 51 IC 56 IC 66 Q 1 Q 2 Q 21 Q 22 Q 23 Q 36 Q 37	(A,29,43) IC (A,23,43) IC (B,22,40) IC (A,11,14) IC (A,16,27) IC  (B,10,13) IC (B,12,21) IC (A,30,13) Chip Transistor (A,34,29) Chip Transistor (B,27,40) Transistor (B,27,43) Transistor (B,27,43) Transistor (A,17,8) Chip Transistor (A,16,12) Chip Transistor	TC7PAU04FU TC7PAU04FU AK2301A AN6123MS  PCM1742KE NJM4558V DTC124EUA DTC124EUA UMD2N  DTC124EUA UMD2N  DTC124EUA UMD2N DTC124EUA DTC124EUA DTC124EUA	R 66 R 67 R 68 R 69 R 70 R 71 R 72 R 73 R 76 R 77 R 78 R 79 R 80 R 81 R 82 R 83	(B,18,21) (B,16,24) (B,12,19) (B,11,24) (B,7,24) (B,9,19) (B,3,17) (B,5,19) (A,4,30) (B,5,31) (A,6,32) (B,11,32) (A,3,33) (B,10,29) (B,16,29) (B,9,32)	RS1/16S103J RS1/16S103J RS1/16S473J RS1/16S473J RS1/16S103J RS1/16S103J RS1/16S103J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J
•	IC 21 IC 22 IC 23 IC 36 IC 51 IC 56 IC 66 Q 1 Q 2 Q 21 Q 22 Q 23 Q 36 Q 37 L 1	(A,29,43) IC (A,23,43) IC (B,22,40) IC (A,11,14) IC (A,16,27) IC  (B,10,13) IC (B,12,21) IC (A,30,13) Chip Transistor (A,34,29) Chip Transistor (B,27,40) Transistor (B,27,43) Transistor (B,27,43) Transistor (A,17,8) Chip Transistor (A,16,12) Chip Transistor (A,23,24) Inductor	TC7PAU04FU TC7PAU04FU AK2301A AN6123MS  PCM1742KE NJM4558V DTC124EUA DTC124EUA UMD2N  DTC124EUA UMD2N DTC124EUA CTF1394	R 66 R 67 R 68 R 69 R 70 R 71 R 72 R 73 R 76 R 77 R 78 R 79 R 80 R 81 R 82 R 83 R 84	(B,18,21) (B,16,24) (B,16,24) (B,12,19) (B,11,24) (B,7,24) (B,9,19) (B,3,17) (B,5,19) (A,4,30) (B,5,31) (A,6,32) (B,11,32) (A,3,33) (B,10,29) (B,16,29) (B,9,32) (B,16,31)	RS1/16S103J RS1/16S103J RS1/16S473J RS1/16S473J RS1/16S103J RS1/16S103J RS1/16S103J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J
•	IC 21 IC 22 IC 23 IC 36 IC 51 IC 56 IC 66 Q 1 Q 2 Q 21 Q 22 Q 23 Q 36 Q 37 L 1 L 21	(A,29,43) IC (A,23,43) IC (B,22,40) IC (A,11,14) IC (A,16,27) IC  (B,10,13) IC (B,12,21) IC (A,30,13) Chip Transistor (A,34,29) Chip Transistor (B,27,40) Transistor (B,27,43) Transistor (B,27,43) Transistor (A,17,8) Chip Transistor (A,17,8) Chip Transistor (A,16,12) Chip Transistor (A,23,24) Inductor	TC7PAU04FU TC7PAU04FU AK2301A AN6123MS  PCM1742KE NJM4558V DTC124EUA DTC124EUA UMD2N  DTC124EUA UMD2N DTC124EUA CTF1394  CTF1379	R 66 R 67 R 68 R 69 R 70 R 71 R 72 R 73 R 76 R 77 R 78 R 79 R 80 R 81 R 82 R 83	(B,18,21) (B,16,24) (B,12,19) (B,11,24) (B,7,24) (B,9,19) (B,3,17) (B,5,19) (A,4,30) (B,5,31) (A,6,32) (B,11,32) (A,3,33) (B,10,29) (B,16,29) (B,9,32)	RS1/16S103J RS1/16S103J RS1/16S473J RS1/16S473J RS1/16S103J RS1/16S103J RS1/16S103J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J
•	IC 21 IC 22 IC 23 IC 36 IC 51 IC 56 IC 66 Q 1 Q 2 Q 21 Q 22 Q 23 Q 36 Q 37 L 1 L 21 L 21 L 22	(A,29,43) IC (A,23,43) IC (B,22,40) IC (A,11,14) IC (A,16,27) IC  (B,10,13) IC (B,12,21) IC (A,30,13) Chip Transistor (A,34,29) Chip Transistor (B,27,40) Transistor (B,27,43) Transistor (B,27,43) Transistor (A,17,8) Chip Transistor (A,17,8) Chip Transistor (A,16,12) Chip Transistor (A,23,24) Inductor (A,26,39) Inductor (A,23,40) Inductor	TC7PAU04FU TC7PAU04FU AK2301A AN6123MS  PCM1742KE NJM4558V DTC124EUA DTC124EUA UMD2N  DTC124EUA UMD2N  DTC124EUA CTF1379 CTF1379	R 66 R 67 R 68 R 69 R 70 R 71 R 72 R 73 R 76 R 77 R 78 R 79 R 80 R 81 R 82 R 83 R 84	(B,18,21) (B,16,24) (B,12,19) (B,11,24) (B,7,24) (B,9,19) (B,3,17) (B,5,19) (A,4,30) (B,5,31) (A,6,32) (B,11,32) (A,3,33) (B,10,29) (B,16,29) (B,9,32) (B,16,31)	RS1/16S103J RS1/16S103J RS1/16S473J RS1/16S473J RS1/16S103J RS1/16S103J RS1/16S103J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J
•	IC 21 IC 22 IC 23 IC 36 IC 51 IC 56 IC 66 Q 1 Q 2 Q 21 Q 22 Q 23 Q 36 Q 37 L 1 L 21 L 21 L 22	(A,29,43) IC (A,23,43) IC (B,22,40) IC (A,11,14) IC (A,16,27) IC  (B,10,13) IC (B,12,21) IC (A,30,13) Chip Transistor (A,34,29) Chip Transistor (B,27,40) Transistor (B,27,43) Transistor (B,27,43) Transistor (A,17,8) Chip Transistor (A,17,8) Chip Transistor (A,16,12) Chip Transistor (A,23,24) Inductor	TC7PAU04FU TC7PAU04FU AK2301A AN6123MS  PCM1742KE NJM4558V DTC124EUA DTC124EUA UMD2N  DTC124EUA UMD2N DTC124EUA CTF1394  CTF1379	R 66 R 67 R 68 R 69 R 70 R 71 R 72 R 73 R 76 R 77 R 78 R 79 R 80 R 81 R 82 R 83 R 84 R 85	(B,18,21) (B,16,24) (B,12,19) (B,11,24) (B,7,24) (B,9,19) (B,3,17) (B,5,19) (A,4,30) (B,5,31) (A,6,32) (B,11,32) (A,3,33) (B,10,29) (B,16,29) (B,9,32) (B,16,31) (B,9,39)	RS1/16S103J RS1/16S103J RS1/16S473J RS1/16S473J RS1/16S103J RS1/16S103J RS1/16S103J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J
E	IC 21 IC 22 IC 23 IC 36 IC 51 IC 56 IC 66 Q 1 Q 2 Q 21 Q 22 Q 23 Q 36 Q 37 L 1 L 21 L 22 L 23	(A,29,43) IC (A,23,43) IC (B,22,40) IC (A,11,14) IC (A,16,27) IC  (B,10,13) IC (B,12,21) IC (A,30,13) Chip Transistor (A,34,29) Chip Transistor (B,27,40) Transistor (B,27,43) Transistor (B,27,43) Transistor (A,17,8) Chip Transistor (A,17,8) Chip Transistor (A,16,12) Chip Transistor (A,23,24) Inductor (A,26,39) Inductor (A,23,40) Inductor (B,23,44) Inductor	TC7PAU04FU TC7PAU04FU AK2301A AN6123MS  PCM1742KE NJM4558V DTC124EUA DTC124EUA UMD2N  DTC124EUA UMD2N  DTC124EUA CTF1379 CTF1379 CTF1379	R 66 R 67 R 68 R 69 R 70 R 71 R 72 R 73 R 76 R 77 R 78 R 79 R 80 R 81 R 82 R 83 R 84 R 85	(B,18,21) (B,16,24) (B,12,19) (B,11,24) (B,7,24) (B,9,19) (B,3,17) (B,5,19) (A,4,30) (B,5,31) (A,6,32) (B,11,32) (A,3,33) (B,10,29) (B,16,29) (B,9,32) (B,16,31) (B,9,39) (B,6,39)	RS1/16S103J RS1/16S103J RS1/16S473J RS1/16S473J RS1/16S103J RS1/16S103J RS1/16S103J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J
•	IC 21 IC 22 IC 23 IC 36 IC 51 IC 56 IC 66 Q 1 Q 2 Q 21 Q 22 Q 23 Q 36 Q 37 L 1 L 21 L 22 L 23 L 36	(A,29,43) IC (A,23,43) IC (B,22,40) IC (A,11,14) IC (A,16,27) IC  (B,10,13) IC (B,12,21) IC (A,30,13) Chip Transistor (A,34,29) Chip Transistor (B,27,40) Transistor (B,27,40) Transistor (B,27,43) Transistor (A,17,8) Chip Transistor (A,17,8) Chip Transistor (A,16,12) Chip Transistor (A,23,24) Inductor (A,26,39) Inductor (A,23,40) Inductor (B,23,44) Inductor (A,5,11) Inductor	TC7PAU04FU TC7PAU04FU AK2301A AN6123MS  PCM1742KE NJM4558V DTC124EUA UMD2N  DTC124EUA UMD2N  DTC124EUA CTF1379 CTF1379 CTF1379 LCYC2R2K1608	R 66 R 67 R 68 R 69 R 70 R 71 R 72 R 73 R 76 R 77 R 78 R 79 R 80 R 81 R 82 R 83 R 84 R 85	(B,18,21) (B,16,24) (B,12,19) (B,11,24) (B,7,24) (B,9,19) (B,3,17) (B,5,19) (A,4,30) (B,5,31) (A,6,32) (B,11,32) (A,3,33) (B,10,29) (B,16,29) (B,9,32) (B,16,31) (B,9,39)	RS1/16S103J RS1/16S103J RS1/16S473J RS1/16S473J RS1/16S103J RS1/16S103J RS1/16S103J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J
E	IC 21 IC 22 IC 23 IC 36 IC 51 IC 56 IC 66 Q 1 Q 2 Q 21 Q 22 Q 23 Q 36 Q 37 L 1 L 21 L 22 L 23	(A,29,43) IC (A,23,43) IC (B,22,40) IC (A,11,14) IC (A,16,27) IC  (B,10,13) IC (B,12,21) IC (A,30,13) Chip Transistor (A,34,29) Chip Transistor (B,27,40) Transistor (B,27,43) Transistor (B,27,43) Transistor (A,17,8) Chip Transistor (A,17,8) Chip Transistor (A,16,12) Chip Transistor (A,23,24) Inductor (A,26,39) Inductor (A,23,40) Inductor (B,23,44) Inductor	TC7PAU04FU TC7PAU04FU AK2301A AN6123MS  PCM1742KE NJM4558V DTC124EUA DTC124EUA UMD2N  DTC124EUA UMD2N  DTC124EUA CTF1379 CTF1379 CTF1379	R 66 R 67 R 68 R 69 R 70 R 71 R 72 R 73 R 76 R 77 R 78 R 79 R 80 R 81 R 82 R 83 R 84 R 85	(B,18,21) (B,16,24) (B,12,19) (B,11,24) (B,7,24) (B,9,19) (B,3,17) (B,5,19) (A,4,30) (B,5,31) (A,6,32) (B,11,32) (A,3,33) (B,10,29) (B,16,29) (B,9,32) (B,16,31) (B,9,39) (B,6,39)	RS1/16S103J RS1/16S103J RS1/16S473J RS1/16S473J RS1/16S103J RS1/16S103J RS1/16S103J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J
E	IC 21 IC 22 IC 23 IC 36 IC 51 IC 56 IC 66 Q 1 Q 2 Q 21 Q 22 Q 23 Q 36 Q 37 L 1 L 21 L 22 L 23 L 36	(A,29,43) IC (A,23,43) IC (B,22,40) IC (A,11,14) IC (A,16,27) IC  (B,10,13) IC (B,12,21) IC (A,30,13) Chip Transistor (A,34,29) Chip Transistor (B,27,40) Transistor (B,27,40) Transistor (B,27,43) Transistor (A,17,8) Chip Transistor (A,17,8) Chip Transistor (A,16,12) Chip Transistor (A,23,24) Inductor (A,26,39) Inductor (A,23,40) Inductor (B,23,44) Inductor (A,5,11) Inductor	TC7PAU04FU TC7PAU04FU AK2301A AN6123MS  PCM1742KE NJM4558V DTC124EUA UMD2N  DTC124EUA UMD2N  DTC124EUA CTF1379 CTF1379 CTF1379 LCYC2R2K1608	R 66 R 67 R 68 R 69 R 70 R 71 R 72 R 73 R 76 R 77 R 78 R 79 R 80 R 81 R 82 R 83 R 84 R 85 R 86 R 87	(B,18,21) (B,16,24) (B,12,19) (B,11,24) (B,7,24) (B,9,19) (B,3,17) (B,5,19) (A,4,30) (B,5,31) (A,6,32) (B,11,32) (A,3,33) (B,10,29) (B,16,29) (B,16,29) (B,9,32) (B,16,31) (B,9,39) (B,6,39) (B,6,39) (B,12,39)	RS1/16S103J RS1/16S103J RS1/16S473J RS1/16S473J RS1/16S103J RS1/16S103J RS1/16S103J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J
E	IC 21 IC 22 IC 23 IC 36 IC 51 IC 56 IC 66 Q 1 Q 2 Q 21 Q 22 Q 23 Q 36 Q 37 L 1 L 21 L 22 L 23 L 36 L 51	(A,29,43) IC (A,23,43) IC (B,22,40) IC (A,11,14) IC (A,16,27) IC  (B,10,13) IC (B,12,21) IC (A,30,13) Chip Transistor (A,34,29) Chip Transistor (B,27,40) Transistor (B,27,40) Transistor (B,27,43) Transistor (A,17,8) Chip Transistor (A,17,8) Chip Transistor (A,16,12) Chip Transistor (A,23,24) Inductor (A,23,40) Inductor (B,23,44) Inductor (A,5,11) Inductor (A,11,32) Inductor	TC7PAU04FU TC7PAU04FU AK2301A AN6123MS  PCM1742KE NJM4558V DTC124EUA UMD2N  DTC124EUA UMD2N  DTC124EUA CTF1379 CTF1379 CTF1379 LCYC2R2K1608 CTF1379	R 66 R 67 R 68 R 69 R 70 R 71 R 72 R 73 R 76 R 77 R 78 R 79 R 80 R 81 R 82 R 83 R 84 R 85	(B,18,21) (B,16,24) (B,12,19) (B,11,24) (B,7,24) (B,9,19) (B,3,17) (B,5,19) (A,4,30) (B,5,31) (A,6,32) (B,11,32) (A,3,33) (B,10,29) (B,16,29) (B,16,29) (B,9,32) (B,16,31) (B,9,39) (B,6,39) (B,6,39) (B,12,39)	RS1/16S103J RS1/16S103J RS1/16S473J RS1/16S473J RS1/16S103J RS1/16S103J RS1/16S103J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J
E	IC 21 IC 22 IC 23 IC 36 IC 51 IC 56 IC 66 Q 1 Q 2 Q 21 Q 22 Q 23 Q 36 Q 37 L 1 L 21 L 22 L 23 L 36 L 51 L 56	(A,29,43) IC (A,23,43) IC (B,22,40) IC (A,11,14) IC (A,16,27) IC  (B,10,13) IC (B,12,21) IC (A,30,13) Chip Transistor (A,34,29) Chip Transistor (B,27,40) Transistor (B,27,43) Transistor (A,17,8) Chip Transistor (A,17,8) Chip Transistor (A,16,12) Chip Transistor (A,23,24) Inductor (A,23,34) Inductor (A,23,40) Inductor (B,23,44) Inductor (A,5,11) Inductor (A,11,32) Inductor	TC7PAU04FU TC7PAU04FU AK2301A AN6123MS  PCM1742KE NJM4558V DTC124EUA UMD2N  DTC124EUA UMD2N  DTC124EUA CTF1379 CTF1379 CTF1379 LCYC2R2K1608 CTF1379 CTF1379 CTF1379	R 66 R 67 R 68 R 69 R 70 R 71 R 72 R 73 R 76 R 77 R 78 R 79 R 80 R 81 R 82 R 83 R 84 R 85 R 86 R 87	(B,18,21) (B,16,24) (B,12,19) (B,11,24) (B,7,24) (B,9,19) (B,3,17) (B,5,19) (A,4,30) (B,5,31) (A,6,32) (B,11,32) (A,3,33) (B,10,29) (B,16,29) (B,16,29) (B,9,32) (B,16,31) (B,9,39) (B,6,39) (B,6,39) (B,12,39)	RS1/16S103J RS1/16S103J RS1/16S473J RS1/16S473J RS1/16S103J RS1/16S103J RS1/16S103J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J
E	IC 21 IC 22 IC 23 IC 36 IC 51 IC 56 IC 66 Q 1 Q 2 Q 21 Q 22 Q 23 Q 36 Q 37 L 1 L 21 L 22 L 23 L 36 L 51 L 56 L 57	(A,29,43) IC (A,23,43) IC (B,22,40) IC (A,11,14) IC (A,16,27) IC  (B,10,13) IC (B,12,21) IC (A,30,13) Chip Transistor (A,34,29) Chip Transistor (B,27,40) Transistor (B,27,43) Transistor (A,17,8) Chip Transistor (A,17,8) Chip Transistor (A,16,12) Chip Transistor (A,23,24) Inductor (A,23,34) Inductor (A,23,40) Inductor (B,23,44) Inductor (A,5,11) Inductor (A,11,32) Inductor (B,17,7) Inductor (B,12,9) Inductor	TC7PAU04FU TC7PAU04FU AK2301A AN6123MS  PCM1742KE NJM4558V DTC124EUA UMD2N  DTC124EUA UMD2N  DTC124EUA CTF1379	R 66 R 67 R 68 R 69 R 70 R 71 R 72 R 73 R 76 R 77 R 78 R 79 R 80 R 81 R 82 R 83 R 84 R 85 R 86 R 87	(B,18,21) (B,16,24) (B,16,24) (B,12,19) (B,11,24) (B,7,24) (B,9,19) (B,3,17) (B,5,19) (A,4,30) (B,5,31) (A,6,32) (B,11,32) (A,3,33) (B,10,29) (B,16,29) (B,9,32) (B,16,31) (B,9,39) (B,6,39) (B,6,39) (B,12,39)	RS1/16S103J RS1/16S103J RS1/16S473J RS1/16S473J RS1/16S103J RS1/16S103J RS1/16S103J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J
E	IC 21 IC 22 IC 23 IC 36 IC 51 IC 56 IC 66 Q 1 Q 2 Q 21 Q 22 Q 23 Q 36 Q 37 L 1 L 21 L 22 L 23 L 36 L 51 L 56 L 57	(A,29,43) IC (A,23,43) IC (B,22,40) IC (A,11,14) IC (A,16,27) IC  (B,10,13) IC (B,12,21) IC (A,30,13) Chip Transistor (A,34,29) Chip Transistor (B,27,40) Transistor (B,27,43) Transistor (A,17,8) Chip Transistor (A,17,8) Chip Transistor (A,16,12) Chip Transistor (A,23,24) Inductor (A,23,34) Inductor (A,23,40) Inductor (B,23,44) Inductor (A,5,11) Inductor (A,11,32) Inductor (B,17,7) Inductor (B,12,9) Inductor	TC7PAU04FU TC7PAU04FU AK2301A AN6123MS  PCM1742KE NJM4558V DTC124EUA UMD2N  DTC124EUA UMD2N  DTC124EUA CTF1379	R 66 R 67 R 68 R 69 R 70 R 71 R 72 R 73 R 76 R 77 R 78 R 79 R 80 R 81 R 82 R 83 R 84 R 85 R 85 R 86 R 87	(B,18,21) (B,16,24) (B,16,24) (B,12,19) (B,11,24) (B,7,24) (B,9,19) (B,3,17) (B,5,19) (A,4,30) (B,5,31) (A,6,32) (B,11,32) (A,3,33) (B,10,29) (B,16,29) (B,16,29) (B,9,32) (B,16,31) (B,9,39) (B,6,39) (B,6,39) (B,12,39) TORS	RS1/16S103J RS1/16S103J RS1/16S473J RS1/16S473J RS1/16S103J RS1/16S103J RS1/16S103J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J
E	IC 21 IC 22 IC 23 IC 36 IC 51 IC 56 IC 66 Q 1 Q 2 Q 21 Q 22 Q 23 Q 36 Q 37 L 1 L 21 L 22 L 23 L 36 L 51 L 56 L 57 X 21	(A,29,43) IC (A,23,43) IC (B,22,40) IC (A,11,14) IC (A,16,27) IC  (B,10,13) IC (B,12,21) IC (A,30,13) Chip Transistor (A,34,29) Chip Transistor (B,27,40) Transistor (B,27,43) Transistor (A,17,8) Chip Transistor (A,17,8) Chip Transistor (A,16,12) Chip Transistor (A,23,24) Inductor (A,23,34) Inductor (A,23,40) Inductor (B,23,44) Inductor (A,5,11) Inductor (A,5,11) Inductor (A,11,32) Inductor (B,17,7) Inductor (B,12,9) Inductor (A,19,41) Oscillator 11.285	TC7PAU04FU TC7PAU04FU AK2301A AN6123MS  PCM1742KE NJM4558V DTC124EUA UMD2N  DTC124EUA UMD2N  DTC124EUA CTF1379	R 66 R 67 R 68 R 69 R 70 R 71 R 72 R 73 R 76 R 77 R 78 R 79 R 80 R 81 R 82 R 83 R 84 R 85 R 86 R 87 CAPACI	(B,18,21) (B,16,24) (B,16,24) (B,12,19) (B,11,24) (B,7,24) (B,9,19) (B,3,17) (B,5,19) (A,4,30) (B,5,31) (A,6,32) (B,11,32) (A,3,33) (B,10,29) (B,16,29) (B,16,29) (B,9,32) (B,16,31) (B,9,39) (B,6,39) (B,6,39) (B,12,39) TORS	RS1/16S103J RS1/16S103J RS1/16S473J RS1/16S473J RS1/16S103J RS1/16S103J RS1/16S103J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J CKSRYB104K16 CSZS100M16
E	IC 21 IC 22 IC 23 IC 36 IC 51 IC 56 IC 66 Q 1 Q 2 Q 21 Q 22 Q 23 Q 36 Q 37 L 1 L 21 L 22 L 23 L 36 L 51 L 56 L 57 X 21 X 22	(A,29,43) IC (A,23,43) IC (B,22,40) IC (A,11,14) IC (A,16,27) IC  (B,10,13) IC (B,12,21) IC (A,30,13) Chip Transistor (A,34,29) Chip Transistor (B,27,40) Transistor (B,27,43) Transistor (A,17,8) Chip Transistor (A,17,8) Chip Transistor (A,16,12) Chip Transistor (A,23,24) Inductor (A,23,34) Inductor (A,23,40) Inductor (A,23,41) Inductor (A,5,11) Inductor (A,5,11) Inductor (A,11,32) Inductor (B,17,7) Inductor (B,12,9) Inductor (A,19,41) Oscillator 11.288 (B,18,42) Oscillator 12.288	TC7PAU04FU TC7PAU04FU AK2301A AN6123MS  PCM1742KE NJM4558V DTC124EUA UMD2N  DTC124EUA UMD2N  DTC124EUA CTF1379	R 66 R 67 R 68 R 69 R 70 R 71 R 72 R 73 R 76 R 77 R 78 R 79 R 80 R 81 R 82 R 83 R 84 R 85 R 85 R 86 R 87	(B,18,21) (B,16,24) (B,16,24) (B,12,19) (B,11,24) (B,7,24) (B,9,19) (B,3,17) (B,5,19) (A,4,30) (B,5,31) (A,6,32) (B,11,32) (A,3,33) (B,10,29) (B,16,29) (B,16,29) (B,9,32) (B,16,31) (B,9,39) (B,6,39) (B,6,39) (B,12,39) TORS	RS1/16S103J RS1/16S103J RS1/16S473J RS1/16S473J RS1/16S103J RS1/16S103J RS1/16S103J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J
E	IC 21 IC 22 IC 23 IC 36 IC 51 IC 56 IC 66 Q 1 Q 2 Q 21 Q 22 Q 23 Q 36 Q 37 L 1 L 21 L 22 L 23 L 36 L 51 L 56 L 57 X 21	(A,29,43) IC (A,23,43) IC (B,22,40) IC (A,11,14) IC (A,16,27) IC  (B,10,13) IC (B,12,21) IC (A,30,13) Chip Transistor (A,34,29) Chip Transistor (B,27,40) Transistor (B,27,43) Transistor (A,17,8) Chip Transistor (A,17,8) Chip Transistor (A,16,12) Chip Transistor (A,23,24) Inductor (A,23,34) Inductor (A,23,40) Inductor (B,23,44) Inductor (A,5,11) Inductor (A,5,11) Inductor (A,11,32) Inductor (B,17,7) Inductor (B,12,9) Inductor (A,19,41) Oscillator 11.285	TC7PAU04FU TC7PAU04FU AK2301A AN6123MS  PCM1742KE NJM4558V DTC124EUA UMD2N  DTC124EUA UMD2N  DTC124EUA CTF1379	R 66 R 67 R 68 R 69 R 70 R 71 R 72 R 73 R 76 R 77 R 78 R 79 R 80 R 81 R 82 R 83 R 84 R 85 R 85 CAPACI C 1 C 4 C 5	(B,18,21) (B,16,24) (B,12,19) (B,11,24) (B,7,24) (B,9,19) (B,3,17) (B,5,19) (A,4,30) (B,5,31) (A,6,32) (B,11,32) (A,3,33) (B,10,29) (B,16,29) (B,16,29) (B,16,29) (B,9,32) (B,16,31) (B,9,39) (B,6,39) (B,12,39) TORS (A,28,12) (A,26,21) (A,22,16)	RS1/16S103J RS1/16S103J RS1/16S473J RS1/16S473J RS1/16S103J RS1/16S103J RS1/16S103J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J CKSRYB104K16 CKSRYB104K16
E	IC 21 IC 22 IC 23 IC 36 IC 51 IC 56 IC 66 Q 1 Q 2 Q 21 Q 22 Q 23 Q 36 Q 37 L 1 L 21 L 22 L 23 L 36 L 51 L 56 L 57 X 21 X 22	(A,29,43) IC (A,23,43) IC (B,22,40) IC (A,11,14) IC (A,16,27) IC  (B,10,13) IC (B,12,21) IC (A,30,13) Chip Transistor (A,34,29) Chip Transistor (B,27,40) Transistor (B,27,43) Transistor (A,17,8) Chip Transistor (A,17,8) Chip Transistor (A,16,12) Chip Transistor (A,23,24) Inductor (A,23,34) Inductor (A,23,40) Inductor (A,23,41) Inductor (A,5,11) Inductor (A,5,11) Inductor (A,11,32) Inductor (B,17,7) Inductor (B,12,9) Inductor (A,19,41) Oscillator 11.288 (B,18,42) Oscillator 12.288	TC7PAU04FU TC7PAU04FU AK2301A AN6123MS  PCM1742KE NJM4558V DTC124EUA UMD2N  DTC124EUA UMD2N  DTC124EUA CTF1379	R 66 R 67 R 68 R 69 R 70 R 71 R 72 R 73 R 76 R 77 R 78 R 79 R 80 R 81 R 82 R 83 R 84 R 85 R 85 CAPACI C 1 C 4 C 5 C 7	(B,18,21) (B,16,24) (B,12,19) (B,11,24) (B,7,24) (B,9,19) (B,3,17) (B,5,19) (A,4,30) (B,5,31) (A,6,32) (B,11,32) (A,3,33) (B,10,29) (B,16,29) (B,16,29) (B,16,29) (B,9,32) (B,16,31) (B,9,39) (B,6,39) (B,12,39) TORS (A,28,12) (A,26,21) (A,22,16) (A,22,16) (A,25,13)	RS1/16S103J RS1/16S103J RS1/16S473J RS1/16S473J RS1/16S103J RS1/16S103J RS1/16S103J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J CKSRYB104K16 CSZS100M16 CKSRYB104K16 CSZS100M16
E	IC 21 IC 22 IC 23 IC 36 IC 51 IC 56 IC 66 Q 1 Q 2 Q 21 Q 22 Q 23 Q 36 Q 37 L 1 L 21 L 22 L 23 L 36 L 51 L 56 L 57 X 21 X 22 Y 1	(A,29,43) IC (A,23,43) IC (B,22,40) IC (A,11,14) IC (A,16,27) IC  (B,10,13) IC (B,12,21) IC (A,30,13) Chip Transistor (A,34,29) Chip Transistor (B,27,40) Transistor (B,27,43) Transistor (A,17,8) Chip Transistor (A,16,12) Chip Transistor (A,23,24) Inductor (A,23,34) Inductor (A,23,40) Inductor (B,23,44) Inductor (A,5,11) Inductor (A,11,32) Inductor (B,17,7) Inductor (B,12,9) Inductor (B,12,9) Inductor (A,19,41) Oscillator 11.288 (B,18,42) Oscillator 12.288 (B,27,21) Bluetooth Modul	TC7PAU04FU TC7PAU04FU AK2301A AN6123MS  PCM1742KE NJM4558V DTC124EUA UMD2N  DTC124EUA UMD2N  DTC124EUA CTF1379	R 66 R 67 R 68 R 69 R 70 R 71 R 72 R 73 R 76 R 77 R 78 R 79 R 80 R 81 R 82 R 83 R 84 R 85 R 85 CAPACI C 1 C 4 C 5	(B,18,21) (B,16,24) (B,12,19) (B,11,24) (B,7,24) (B,9,19) (B,3,17) (B,5,19) (A,4,30) (B,5,31) (A,6,32) (B,11,32) (A,3,33) (B,10,29) (B,16,29) (B,16,29) (B,16,29) (B,9,32) (B,16,31) (B,9,39) (B,6,39) (B,12,39) TORS (A,28,12) (A,26,21) (A,22,16)	RS1/16S103J RS1/16S103J RS1/16S473J RS1/16S473J RS1/16S103J RS1/16S103J RS1/16S103J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J CKSRYB104K16 CKSRYB104K16
E	IC 21 IC 22 IC 23 IC 36 IC 51 IC 56 IC 66 Q 1 Q 2 Q 21 Q 22 Q 23 Q 36 Q 37 L 1 L 21 L 22 L 23 L 36 L 51 L 56 L 57 X 21 X 22	(A,29,43) IC (A,23,43) IC (B,22,40) IC (A,11,14) IC (A,16,27) IC  (B,10,13) IC (B,12,21) IC (A,30,13) Chip Transistor (A,34,29) Chip Transistor (B,27,40) Transistor (B,27,43) Transistor (A,17,8) Chip Transistor (A,16,12) Chip Transistor (A,23,24) Inductor (A,23,34) Inductor (A,23,40) Inductor (B,23,44) Inductor (A,5,11) Inductor (A,11,32) Inductor (B,17,7) Inductor (B,12,9) Inductor (B,12,9) Inductor (A,19,41) Oscillator 11.288 (B,18,42) Oscillator 12.288 (B,27,21) Bluetooth Modul	TC7PAU04FU TC7PAU04FU AK2301A AN6123MS  PCM1742KE NJM4558V DTC124EUA UMD2N  DTC124EUA UMD2N  DTC124EUA CTF1379	R 66 R 67 R 68 R 69 R 70 R 71 R 72 R 73 R 76 R 77 R 78 R 79 R 80 R 81 R 82 R 83 R 84 R 85 R 85 CAPACI C 1 C 4 C 5 C 7	(B,18,21) (B,16,24) (B,12,19) (B,11,24) (B,7,24) (B,9,19) (B,3,17) (B,5,19) (A,4,30) (B,5,31) (A,6,32) (B,11,32) (A,3,33) (B,10,29) (B,16,29) (B,16,29) (B,16,29) (B,9,32) (B,16,31) (B,9,39) (B,6,39) (B,12,39) TORS (A,28,12) (A,26,21) (A,22,16) (A,22,16) (A,25,13)	RS1/16S103J RS1/16S103J RS1/16S473J RS1/16S473J RS1/16S103J RS1/16S103J RS1/16S103J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J RS1/16S101J CKSRYB104K16 CSZS100M16 CKSRYB104K16 CSZS1R0M16

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	5	6	-	7	8	•
	Circuit Symbol and No.	Part No.	<u>Ciı</u>	cuit Symbol and No	o. Part No.	
C 9	(A,23,19)	CKSRYB104K16	Unit Na	ame : CD Core	<u> </u>	
C 10	(A,22,15)	CCSRCH101J50				
C 21	(A,28,40)	CKSRYB104K16	Unit(S <sup>-</sup>	10.5COMP2)		
C 22	· · · · /	CKSRYB105K10	_	-		Α
C 23	(A,19,37)	CCSRCH120J50	<b>MISCEL</b>	<u>LANEOUS</u>		,,
C 24	(A,19,45)	CCSRCH120J50	10.004	(4.04.40) 10	DE55.47.4	
C 25	, , ,	CKSRYB105K10	IC 201	(A,34,46) IC	PE5547A	
C 26	· · · · /	CCSRCH120J50	IC 301	(A,27,14) IC (B,56,72) Transistor	BA5839FP	
C 27		CCSRCH120J50	Q 101 Q 102	(B,47,57) Transistor	2SA1577 2SB1689	
C 28		CKSRYB102K50	Q 102	(B,47,57) Transistor	2301009	
C 36	(A,3,15)	CKSYB106K6R3	X 201	· · · /	onator 16.934 MHz CSS1603	
C 36		CKSRYB104K16	S 901	(A,53,37) Switch(HON	,	
C 38		CKSRYB105K10	S 903	(B,19,58) Switch(DSC	•	
C 41	(A,10,19)	CCSRCH101J50	S 904	(B,38,67) Switch(12E,		
C 42		CKSRYB105K10	S 905	(B,24,68) Switch(8EJ)	CSN1068	В
0.40	(4.4.00)	01(00)(0405)(40	RESIST	ORS		
C 43		CKSRYB105K10				
C 44		CKSRYB334K10	R 101	(B,60,73)	RS1/10SR2R4J	
C 45 C 46	,	CKSRYB105K10 CCSRCH101J50	R 102	(B,59,71)	RS1/10SR2R4J	
C 46	, , , ,	CCSRCH101J50	R 103	(B,60,71)	RS1/10SR2R7J	
C 47	(A,7,7)	CCSRCHIUIJOU	R 104	(B,52,69)	RS1/16SS222J	
C 48	(A,9,5)	CKSRYB105K10	R 105	(B,41,57)	RS1/16SS102J	_
C 49	,	CKSRYB105K10				
C 50		CKSRYB105K10	R 107	(B,41,59)	RS1/16SS105J	
C 51	(A,19,24)	CKSRYB334K10	R 202	(B,32,62)	RS1/16SS473J	
C 52		CCSRCH331J50	R 203	(B,42,45)	RS1/16S473J	
0 02	(,1,10,21)	00011011001000	R 204	(A,25,61)	RS1/16SS221J	С
C 53	, , ,	CKSYB106K6R3	R 206	(B,26,53)	RS1/16SS104J	
C 54		CKSRYB105K10	R 210	(B,13,32)	RS1/16SS102J	
C 55		CKSRYB104K16	R 214	(B,36,34)	RS1/16SS472J	
C 56		CKSYB106K6R3	R 216	(B,47,49)	RS1/16SS472J	
C 57	(B,15,12)	CKSRYB102K50	R 221	(B,36,32)	RS1/16SS103J	
C 58	(B,16,11)	CKSYB106K6R3				
C 59	,	CKSRYB102K50	R 222	(B,35,32)	RS1/16SS103J	
C 60	· · · · /	CKSYB106K6R3	R 225	(A,49,49)	RS1/16SS103J	
C 61	(B,14,6)	CKSRYB102K50	R 226	(A,49,50)	RS1/16SS393J	
C 66		CKSYB475K16	R 227	(B,45,51)	RS1/16SS562J	
			R 228	(B,42,53)	RS1/16SS122J	
C 67	(B,9,17)	CKSYB475K16	R 229	(B,44,53)	RS1/16SS472J	D
C 68		CCSRCH221J50	R 230	(B,21,28)	RS1/16SS0R0J	
C 69	, , ,	CCSRCH391J50	R 232	(B,43,51)	RS1/16SS122J	
C 70	, , ,	CKSYB106K6R3	R 233	(B,29,52)	RS1/16SS103J	
C 71	(B,6,25)	CKSRYB105K10	R 234	(B,30,61)	RS1/16SS473J	
C 72	(B,4,19)	CCSRCH391J50		( ,,- ,		_
C 73		CCSRCH221J50	R 235	(A,25,63)	RS1/16SS473J	
C 76	,	CKSRYB102K50	R 239	(B,26,48)	RS1/16SS473J	
0 70	(71,10,10)	ONOTH B TOLING	R 240	(B,10,31)	RS1/16SS473J	
B			R 241	(B,9,32)	RS1/16SS103J	
	Number CMAGGA		R 244	(A,20,52)	RS1/16SS473J	
	Number: CWN2634	_	R 255	(A,27,63)	RAB4CQ104J	Е
Unit	: Name : Antenna U	nit	R 307	(A,34,19)	RS1/16SS183J	_
			R 308	(A,38,20)	RS1/16SS183J	
ANT1	101 BT Antenna	CWX3132	R 309	(A,35,21)	RS1/16SS183J	
			R 310	(A,38,21)	RS1/16SS183J	
			R 601	(B,28,38)	RS1/16SS0R0J	_
llnit	Number: CWS1389		R 602	(B,27,41)	RS1/16SS0R0J	
			R 606	(B,23,41)	RS1/16SS0R0J	
Unit	Name : Switch Uni	τ	R 701	(B,16,35)	RS1/16SS221J	
S 1	(B,7,14) Switch(OPEN)	CSN1051	R 702	(A,23,55)	RS1/16SS221J	
S 2	(B,29,12) Switch(CLOSE)		n /U2	(17,20,00)	1101/1000221J	
			<u>CAPACI</u>	<u>TORS</u>		F
C			C 106	(B,56,69)	CKSQYB475K6R3	
Unit	Number: CWX3514		C 106 C 202	(B,56,69) (A,27,57)	CKSQYB475K6H3 CKSSYB104K10	
				• • • •		

		1 =	2
	<u>Ci</u>	cuit Symbol and No.	Part No.
	C 204	(A,24,63)	CKSSYB103K16
	C 205	(B,23,43)	CKSQYB475K6R3
Α	C 206	(A,22,39)	CKSSYB104K10
	C 207	(A,24,37)	CKSRYB104K16
	C 209 C 210	(B,33,40)	CEVW220M6R3 CKSSYB104K10
	C 211	(B,29,42) (A,27,34)	CKSSYB104K10
	C 212	(B,29,32)	CKSRYB104K16
	C 213	(A,44,37)	CKSSYB104K10
	C 214	(A,28,33)	CKSSYB104K10
	C 216	(A,50,51)	CKSSYB332K50
	C 217	(A,46,51)	CKSSYB104K10
	C 218	(A,49,51)	CKSSYB473K10
В	C 219	(A,45,53)	CKSSYB104K10
	C 220	(A,46,53)	CKSSYB182K50
	C 221	(A,44,53)	CKSSYB104K10
	C 222	(B,43,53)	CCSSCH560J50
	C 223	(B,45,53)	CCSSCH4R0C50
	C 224	(A,43,55)	CKSSYB104K10
•	C 226	(A,40,58)	CCSSCH680J50
	C 227	(A,40,60)	CCSSCH470J50
	C 228	(A,39,62)	CKSSYB103K16
	C 229	(B,49,59)	CKSSYB104K10
	C 236	(A,42,61)	CKSSYB104K10
С	C 239	(B,44,51)	CCSSCH220J50
	C 240	(A,35,61)	CKSSYB104K10
	C 250	(B,36,30)	CKSSYB102K50
	C 251	(B,33,29)	CKSSYB102K50
	C 303	(A,35,19)	CKSSYB472K25
	C 304	(A,34,21)	CKSSYB223K16
-	C 307	(B,25,9)	CKSRYB104K16
	C 308	(B,10,27)	CKSRYB105K10
	C 703	(B,11,37)	CCSSCH101J50
	C 704	(B,8,36)	CKSSYB102K50
	C 711	(A,25,26)	CKSSYB104K10
D			

#### **Miscellaneous Parts List**

Pickup Unit(P10.5)(Service) CXX1942

M 1 Motor Unit(SPINDLE) CXC7134

M 2 Motor Unit(LOADING/CARRIAGE) CXC4026

M 3 Motor Unit(FLAP) XXA7400

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# 6. ADJUSTMENT 6.1 CD ADJUSTMENT

- 1) Cautions on adjustments
- In this product the single voltage (3.3 V) is used for the regulator. The reference voltage is the REFO1 (1.65 V) instead of the GND.

If you should mistakenly short the REFO1 with the GND during adjustment, accurate voltage will not be obtained, and the servo's misoperation will apply excessive shock to the pickup. To avoid such problems:

a. Do not mix up the REFO1 with the GND when connecting the (-) probe of measuring instruments. Especially on an oscilloscope, avoid connecting the (-) probe for CH1 to the GND.

b. In many cases, measuring instruments have the same potential as that for the (-) probe. Be sure to set the measuring instruments to the floating state.

c. If you have mistakenly connected the REFO1 to the GND.

c. If you have mistakenly connected the REFO1 to the GND, turn off the regulator or the power immediately.

- Before mounting and removing filters or leads for adjustment, be sure to turn off the regulator.
- For stable circuit operation, keep the mechanism operating for about one minute or more after the regulator is turned on.
- In the test mode, any software protections will not work. Avoid applying any mechanical or electrical shock to the mechanism during adjustment.
- The RFI and RFO signals with a wide frequency range are easy to oscillate. When observing the signals, insert a resistor of 1k ohms in series.
- The load and eject operation is not guarantied with the mechanism upside down. If the mechanism is blocked due to mistaken eject operation, reset the product or turn off and on the ACC to restore it.

#### 2) Test mode

This mode is used to adjust the CD mechanism module.

• To enter the test mode.

While pressing the [LIST] and [CLK] keys at the same time, reset.

• To exit from the test mode.

Turn off the ACC and back up.

#### Notes:

a. During ejection, do not press any other keys than the EJECT key until the loaded disc is ejected.
b. If you have pressed the [→] key or [←] key during focus search, turn off the power immediately to protect the actuator from damage caused by the lens stuck.
c. For the TR jump modes except 100TR, the track jump operation will continue even if the key is released.

- operation will continue even if the key is released. d. For the CRG move and 100TR jump modes, the tracking loop will be closed at the same time when the key is released.
- e. When the power is turned off and on, the jump mode is reset to the single TR (91), the RF amp gain is set to 0 dB, and the auto-adjustment values are reset to the default settings.

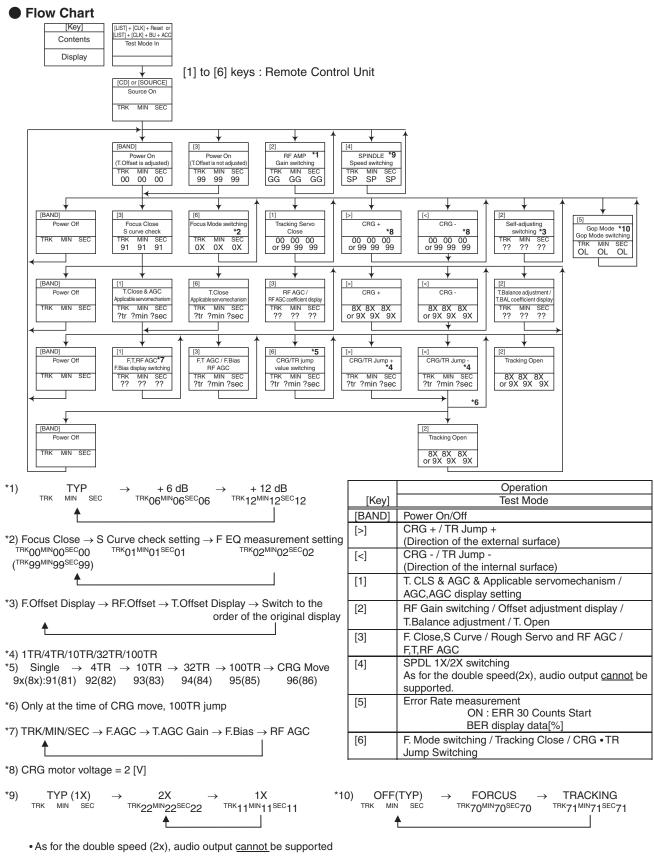
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- \*) After the [EJECT] key is pressed keys other than the [EJECT] key should not be pressed, until disc ejection is complete.
- When the key [2] or [3] is pressed during the Focus Search, the power supply should be immediately turned off (otherwise the lens sticks to Wall, causing the actuator to be damaged).
- In the case of TR jump other than to 100TR, the function shall continue to be processed even if the TR jump key is released. As for the CRG Move and 100TR Jump, the mechanism shall be set to the Tracking Close mode when the key is released.
- When the power is turned on/off the jump mode is reset to the Single TR (91) while the gain of the RFAMP is reset to 0 dB. At the same time all the self-adjusting values shall return to the default setting.

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#### 6.2 CHECKING THE GRATING AFTER CHANGING THE PICKUP UNIT



#### Note :

The grating angle of the PU unit cannot be adjusted after the PU unit is changed. The PU unit in the CD mechanism module is adjusted on the production line to match the CD mechanism module and is thus the best adjusted PU unit for the CD mechanism module. Changing the PU unit is thus best considered as a last resort. However, if the PU unit must be changed, the grating should be checked using the procedure below.

#### Purpose :

To check that the grating is within an acceptable range when the PU unit is changed.

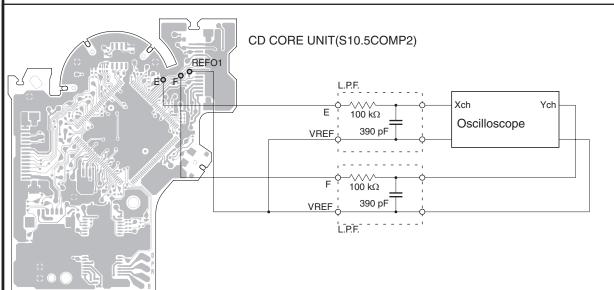
• E, F, REFO1

· Oscilloscope, Two L.P.F.

#### Symptoms of Mal-adjustment :

If the grating is off by a large amount symptoms such as being unable to close tracking, being unable to perform track search operations, or taking a long time for track searching.

- Method:
- · Measuring Equipment
- Measuring Points
- Disc Mode
- TCD-782 • TEST MODE



#### Checking Procedure

- 1. In test mode, load the disc and switch the 3 V regulator on.
- 2. Using the  $[\rightarrow]$  and  $[\leftarrow]$  buttons, move the PU unit to the innermost track.
- 3. Press key [3] to close focus, the display should read "91". Press key [2] to implement the tracking balance adjustment the display should now read "81". Press key [3]. The display will change, returning to "81" on the fourth press.
- 4. As shown in the diagram above, monitor the LPF outputs using the oscilloscope and check that the phase difference is within 75°. Refer to the photographs supplied to determine the phase angle.
- 5. If the phase difference is determined to be greater than 75° try changing the PU unit to see if there is any improvement. If, after trying this a number of times, the grating angle does not become less than 75° then the mechanism should be judged to be at fault.

#### Note

Because of eccentricity in the disc and a slight misalignment of the clamping center the grating waveform may be seen to "wobble" (the phase difference changes as the disc rotates). The angle specified above indicates the average angle.

#### Hint

Reloading the disc changes the clamp position and may decrease the "wobble".

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**Grating waveform** 

$$\label{eq:charge_energy} \begin{split} & Ech \rightarrow Xch ~~20~mV/div,~AC \\ & Fch \rightarrow Ych ~~20~mV/div,~AC \end{split}$$

,,

•

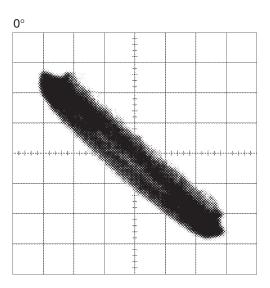
В

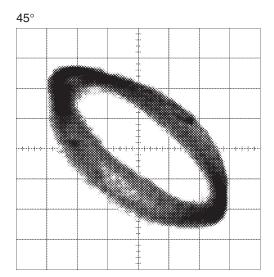
С

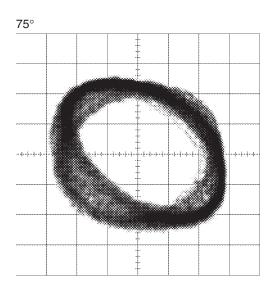
D

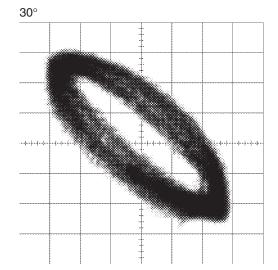
Е

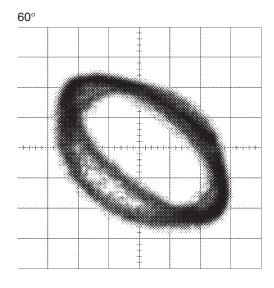
F

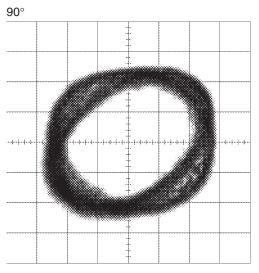












#### **6.3 ERROR MODE**

If this product is not operative or stopped during operation due to an error, the error mode is turned on and cause(s) of the error is indicated with a corresponding number. This arrangement is intended at reducing nonsense calls from the users and also for facilitating trouble analysis and repair work in servicing.

#### (1) Basic Indication Method

1) When SERRORM is selected for the CSMOD (CD mode area for the system), error codes are written to DMIN (minutes display area) and DSEC (seconds display area). The same data is written to DMIN and DSEC. DTNO remains in blank as before.

#### 2) Head unit display examples

Depending on display capability of LCD used, display will vary as shown below. xx contains the error number.

8-digit display	6-digit display	4-digit display
ERROR - xx	ERR - xx	E - xx

(2) CD Error Code List

(2) 00	Elloi Code L	-131	
Code	Class	Displayed error code	Description of the code and potential cause(s)
10	Electricity	Carriage Home NG	CRG can't be moved to inner diameter.
		SERVO LSI Com-	CRG can't be moved from inner diameter.
		munication Error	→ Failure on home switch or CRG move mechanism.
			Communication error between microcomputer and SERVO LSI.
11	Electricity	Focus Servo NG	Focusing not available.
			ightarrow Stains on rear side of disc or excessive vibrations on REWRITABLE.
12	Electricity	Spindle Lock NG	Spindle not locked. Sub-code is strange (not readable).
		Subcode NG	ightarrow Failure on spindle, stains or damages on disc, or excessive vibrations.
			A disc not containing CD-R data is found.
			Turned over disc are found, though rarely.
			CD signal error.
17	Electricity	Setup NG	AGC protection doesn't work. Focus can be easily lost.
			ightarrow Damages or stains on disc, or excessive vibrations on REWRITABLE.
30	Electricity	Search Time Out	Failed to reach target address.
			ightarrow CRG tracking error or damages on disc.
44	Electricity	ALL Skip	Skip setting for all track.
			(CD-R/RW)
50	Mechanism	CD On Mech Error	Mechanical error during CD ON.
			ightarrow Defective loading motor, mechanical lock and mechanical sensor.
A0	System	Power Supply NG	Power (VD) is ground faulted.
			$\rightarrow$ Failure on SW transistor or power supply (failure on connector).

Remarks: Mechanical errors are not displayed (because a CD is turned off in these errors).

Unreadable TOC does not constitute an error. An intended operation continues in this case.

Upper digits of an error code are subdivided as shown below:

1x: Setup relevant errors, 3x: Search relevant errors, Ax: Other errors.

#### Bluetooth Error Code List

	CLOOKIT EITOI C		
Code		Displayed error code	Description of the code and potential cause(s)
10	Built-in Bluetooth	Bluetooth communication failure	Initial communication on Bluetooth unit was failed> Failure on lines related to communication (BTPW, BTRST, BTTEST, BTRX, BTRTS and BTCTS). Failure on Bluetooth unit.
80	Built-in Bluetooth	Flash memory Communication failure	Communication on Flash Memory for phone book was failed> Failure on lines related to communication (BTPW, MEMDI, MEMDO, MEMCK). Failure on Flash Memory. Degradation by rewrite time consumption.

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#### [Purpose of this test mode]

This is a specialized mode that aims to check malfunction condition of H/U and measure the product performance.

#### [Action during this Test Mode]

Enables switching at any time to the iPod source

Disables communication with iPod

Disables indication of logos (Pioneer) on iPod

Functions regardless of connection of the iPod body to H/U

#### [How to shift to test mode]

The following describes how to enter and display the test mode.

- ① Press [LIST + CLK key] together to reset and start the test mode.
- Press such as the [SOURCE] key to switch to the iPod source.
- 3 Bring to the state where title information is displayed by pressing DISP key.

#### [Cancellation of test mode]

The test mode is cancelled by executing any of the following.

ACC\_OFF \*This applies to the case that the test mode is set to be cancelled with ACC\_OFF.

B. Up\_OFF

С

Pressing the H/U reset button

#### [Operational specifications for test mode]

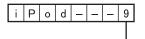
The following specifies the key allocation and the actions.

Key	Action	Default	Remarks
$\rightarrow$	Switches ON/OFF the charging circuit to iPod.	ON	

#### [On-screen image]

The following are the on-screen display images.

The following are displayed as title information.

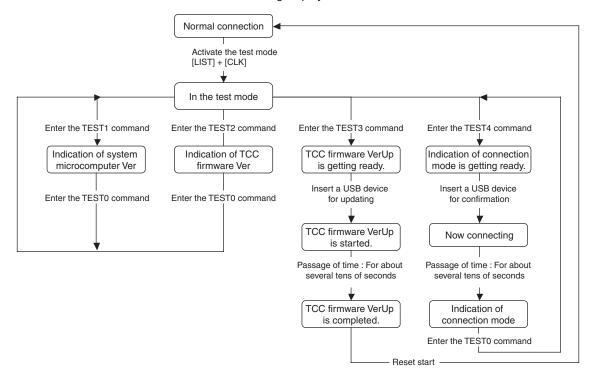


The state of ON/OFF on the charging circuit (1: ON, 0: OFF)

#### Implemented functions

TEST1 command	Right key
TEST2 command	Left key
TEST3 command	LIST key
TEST4 command	DISP key
TEST0 command	BAND/ESC key

- Indication of system microcomputer Ver
- Indication of TCC firmware Ver
- To enter the TCC firmware UpDate mode:
- →Set this mode and insert a USB device having the UpDate program to start rewriting the device.
- \* If you carry out the TEST 3 command with the USB device inserted, a correct result is not displayed.
- Confirmation on connection mode (mass storage class connection)
- →Set this mode and insert a USB device. Then, the connection mode is displayed.
- \* Do not insert a USB device having the UpDate program.
- \* If you carry out the TEST 4 command with the USB device inserted, a correct result is not displayed. Be sure to insert a USB device when "DeviceIn" is being displayed.



#### Indications

Indication of system microcomputer Ver Indication of TCC firmware Ver

TCC firmware VerUp is getting ready. TCC firmware VerUp is started. TCC firmware VerUp is completed.

Confirmation on connection mode is getting ready.

Now connecting Indication of connection mode

Vе	r	*	*	*
Vе	r	*	*	*
			MIN	SEC SEC

R E A [	ΣY	0	0	0
UPD.	Т	0	0	0
COMI	P L	E	Т	Ε

Displays 0:00 to 5:00 (in increments of minutes and seconds)
Displays 0:00 to 5:00 (in increments of minutes and seconds)

\* The time increment stops when it reaches 5:00.

D	е	٧	i	С	е	Τ	n
С	0	n	n	е	С	t	
		М	S	С			

When a device supporting mass storage class is connected:

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#### **6.6 SYSTEM MICROCOMPUTER TEST PROGRAM**



#### PCL Output

In the normal operation mode (with the detachable panel installed, the ACC switched ON, the standby mode cancelled), shift the TESTIN IC601(Pin 86) terminal to H.

The clock signal is output from the PCL terminal IC601(Pin 41).

The frequency of the clock signal is 625.000 kHz that is one 32th of the fundamental frequency.

The clock signal should be 625.000 kHz(±25 Hz).

If the clock signal is out of the range, the X'tal (X601) should be replaced with new one.

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#### 6.7 TEST MODE (Bluetooth)

#### About Memory Clear

When resetting the microprocessor, the memory is initialized except for the following five items. This enables user to avoid the task of registering phones and transfering phone directory again even after resetting system at the time of battery exchange, etc.

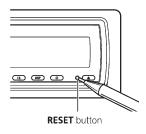
- phone book entries on the Bluetooth telephone
- preset numbers on the Bluetooth telephone
- registration assignment of Bluetooth telephone
- call history of Bluetooth telephone
- history of the most recently connected Bluetooth audio

#### **Resetting the microprocessor**

The microprocessor must be reset under the following conditions:

- Prior to using this unit for the first time after installation
- If the unit fails to operate properly
- When strange or incorrect messages appear on the display

## • Press RESET with a pen tip or other pointed instrument.



# Resetting the Bluetooth wireless technology module

Bluetooth telephone and Bluetooth Audio data can be deleted. To protect personal information, we recommend deleting this data before transferring the unit to other persons. The following settings will be deleted.

- phone book entries on the Bluetooth telephone
- preset numbers on the Bluetooth telephone
- registration assignment of Bluetooth telephone
- call history of Bluetooth telephone
- history of the most recently connected Bluetooth audio

#### 1 Use MULTI-CONTROL to select BT reset.

# 2 Push MULTI-CONTROL right to show a confirmation display.

**Clear memory YES** is displayed. Clearing memory is now on standby.

• If you do not want to reset phone memory, push **MULTI-CONTROL** left. The display reverts.

# 3 Press MULTI-CONTROL to clear the memory.

**Cleared** is displayed and the settings are deleted. ■

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#### Bluetooth Test Mode (when using BT-compliant mobile phone)

#### Specifications for BT Built-in mobile phone

The mobile phone compliant to Bluetooth Ver 1.1 requires at least \*HFP and \*OPP to be mounted.

The model having validly accomplished connecting verification is desirable. [CDMA A5504T(TOSHIBA), 6230(Nokia)etc.)] The model capable of being in standby state is desirable.

#### 1. Cautions

\*These cautions are for the case where mobile phone is actually connected at the service site.

When the mobile phone is actually connected for checking action or the like and the model is registered at the service site, returning the unit directly to user will leave the telephone information on it which had been registered at the service site. Thus, in such case, the task to clear only the telephone information used at the service will be required from the FUNCTION menu.

[Important]

С

When the mobile phone is actually connected to the registration number of which a user has already registered among available No.1 through 3 for registration, take note that the telephone information having registered by user will be overwritten.

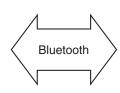
#### 2. Outline of Functions

The following 2 items are to be confirmed for the simple BT action check by using BT-compliant mobile phone:

- Confirmation of Bluetooth connection (certification connection and voice connection)
- Confirmation of BT antenna sensitivity (connection)

#### 3. Configuration Diagram







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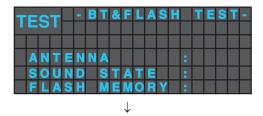
70

2

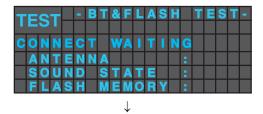
3

#### Operation method

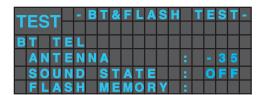
Test mode starts by RESET while pressing EQ+DISP keys simultaneously.



After a few seconds, shift to the standby mode



After starting environment search on BT mobile phone side, connecting action (enter PIN code) Connection completed and the value displayed on the antenna sensitivity part



A: Antenna sensitivity, F: Flash test
\*\*\*\*\*\* indicates the name of mobile phone

▲▲: Antenna sensibility value

The value is only a criterion. When the mobile phone is placed nearest in the front of the product, the value indicates somewhere between 30 and 60. Other than this value or the absence of indication refers to the defective BT antenna connection.

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#### Bluetooth Test Mode (when using 2.4 GHz-compliant spectrum analyzer)

#### 1. Cautions

\* When the service site has a 2.4 GHz-compliant spectrum analyzer, the peripheral facilities shown below are also required.

Also, the antenna terminal on BT unit must be directly connected to the cable.

A gray coaxial cable connected to the antenna connector on BT unit is removed by taking out the upper case and CD mechanics of the product.

This task would be safer if a special connector-drawing jig is available.

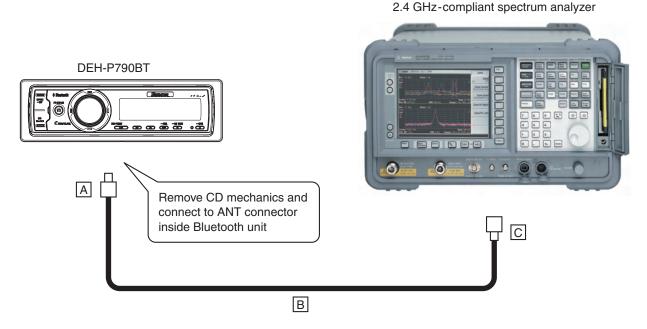
Next, the U.FL connector from spectrum analyzer is connected. The styling of cable must be taken good care so as not to add further burden on BT antenna connector and to break it.

#### 2. Outline of Functions

The following confirmation is to be conducted by test mode in order to simply check BT actions using 2.4 GHz-compliant spectrum analyzer.

\* Confirmation of output level of Bluetooth unit

#### 3. Configuration Diagram



A: U.FL-SMA conversion adapter

(Hirose Electric Co., Ltd CL311-0301-5)

B: Coaxial cable for SMA microwave

(Stack Electronics Co., Ltd. SMA • P-100-STF358)

C: SMA conversion connector

(Stack Electronics Co., Ltd. BA057)

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After Reset Start while pressing LIST+CLOCK keys simultaneously, start BT Test Mode by PHONE key.

↓ PHONE



PEE Sound 1 rings and "LOOP BACK" is displayed.

Select Mode by right & left keys. Select LOC TX NM (data non-modulation).





Determine by Center key and select frequency. Initial value is 2 402 MHz. Select frequency by Up & Down keys. Initial value is 2 402 MHz. 02:2402<->41:2441<->80:2480<->95:2495







Determine by Center key.

Screen displaying LOC TX NM Setup Defined. This is the end of product setup.

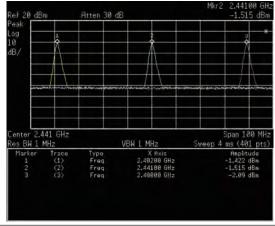
TEST		W		R	E	L	E	S	S		T	E	S	T	
IESI				Ε	X	E	C	U	T	E					
LOCA	L	T	X		N	M									
TS: -	-	Н	M						T			-			
TX: 0	2	R	X	:	-	-		T	G	:	-	-			

Measure each of 02, 41 and 80. Return to SEL screen by BAND key.

Determine the output level of each frequency by spectrum analyzer upon the above connection.

The output level V must be within the range of the following as a determination standard:

"-6 dBm<V<4 dBm"



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# 7. GENERAL INFORMATION

# 7.1 DIAGNOSIS

## 7.1.1 DISASSEMBLY

- Removing the Case (not shown)
- 1. Remove the Case.

# Removing the CD Mechanism Module (Fig.1)



Remove the four screws.

Disconnect the connector and then remove the CD Mechanism Module.

# CD Mechanism Module

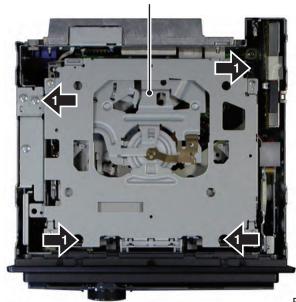


Fig.1

## Removing the Grille Assy (Fig.2)



Disconnect the Cord Assy by Jig GGF1539.



Remove the four screws.

Disconnect the connector and then remove the Grille Assy.

# Cord Assy



Fig.2

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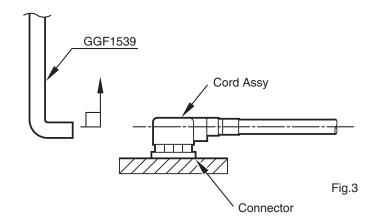
3

When unplugging the cord assy, make sure to use jig GGF1539.

If the antenna cable is directly unplugged without using jig GGF1539, you might damage your fingertip or fingernail.

#### How to Remove the Cord Assy

When unplugging cord assy, hook the point of jig GGF1539 on the lid of cord assy and vertically draw out along with the engagement axis of connector.

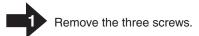


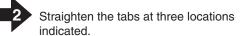
# How to Attach the Cord Assy

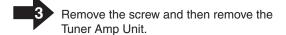
For inserting cord assy, adjust cord assy with the engagement axis of connector and insert it as vertically as possible.

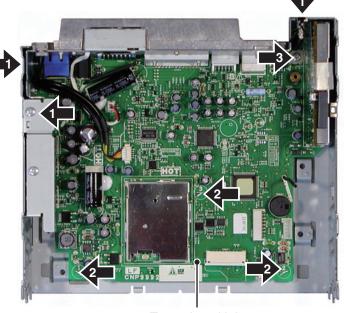
Do not insert the cord assy in extreme slant, as the connector might suffer damage.

## Removing the Tuner Amp Unit (Fig.4)









Tuner Amp Unit

Fig.4

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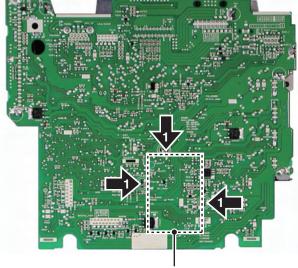
В

С

# ● Removing the Bluetooth Unit (Fig.5)

Remove the three solders.

Straighten the tabs at three locations indicated and then remove the Bluetooth Unit.



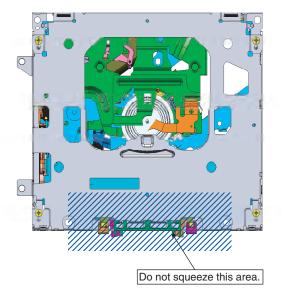
Bluetooth Unit

Fig.5

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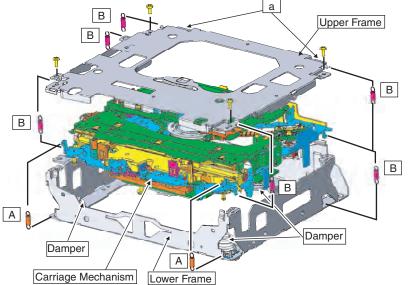
## How to hold the Mechanism Unit

- 1. Hold the Upper and Lower Frames.
- 2. Do not hold the front portion of the Upper Frame, because it is not very solid.



## Removing the Upper and Lower Frames

- 1. With a disc inserted and clamped in the mechanism, remove the two Springs (A), the six Springs (B), and the four Screws.
- 2. Turn the Upper Frame using the part "a" as a pivot, and remove the Upper Frame.
- 3. While lifting the Carriage Mechanism, remove it from the three Dampers.
- Caution: When assembling, be sure to apply some alcohol to the Dampers and assemble the mechanism in a clamped state.



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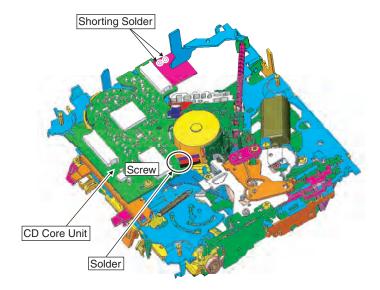
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#### How to remove the CD Core Unit

- Apply Shorting Solder to the flexible cable of the Pickup, and disconnect it from the connector.
- 2. Unsolder the four leads, and loosen the Screw.
- 3. Remove the CD Core Unit.

Caution: When assembling the CD Core Unit, assemble it with the SW in a clamped state so as not to damage it.

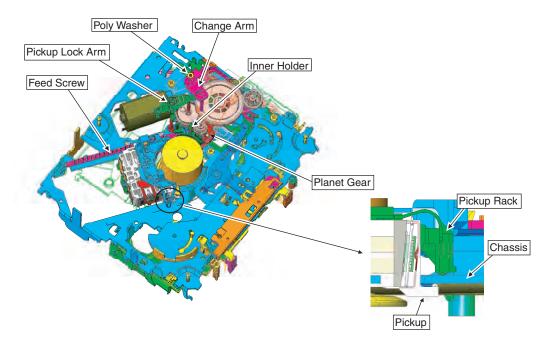


#### How to remove the Pickup Unit

- 1. Make the system in the carriage mechanism mode, and have it clamped.
- 2. Remove the CD Core Unit and remove the leads from the Inner Holder.
- 3. Remove the Poly Washer, Change Arm, and Pickup Lock Arm.
- 4. While releasing from the hook of the Inner Holder, lift the end of the Feed Screw.

Caution: When assembling, move the Planet Gear to the load/eject position before setting the Feed Screw in the Inner Holder.

Assemble the sub unit side of the Pickup, taking the plate (Chassis) in-between. When treating the leads of the Load Carriage Motor Assy, do not make them loose over the Feed Screw.



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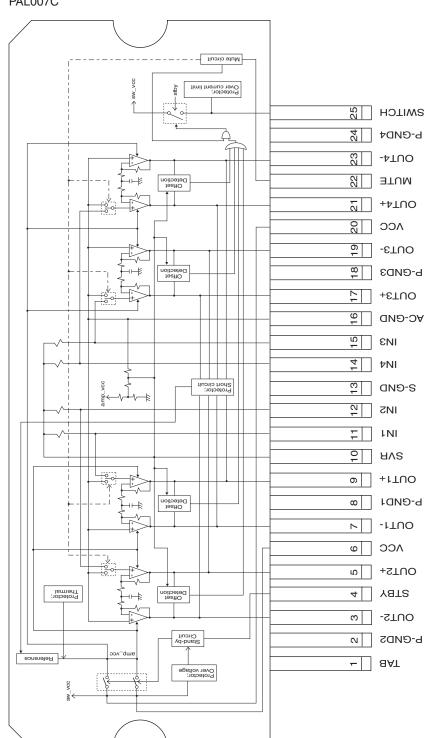
7.2 IC

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С

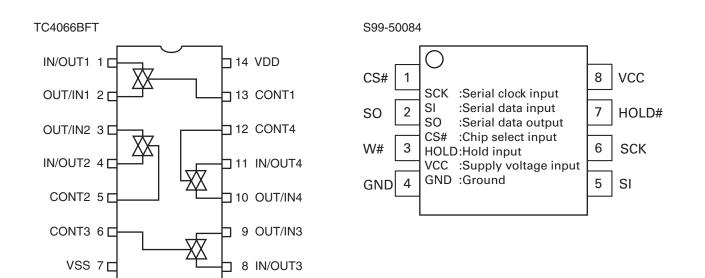
PAL007C PEG330A PE5547A AK2301A TC4066BFT PEG303A TC74VHC02FTS1 S99-50084 PD8172A TC7PAU04FU PML017A PD8171A AN6123MS

PAL007C

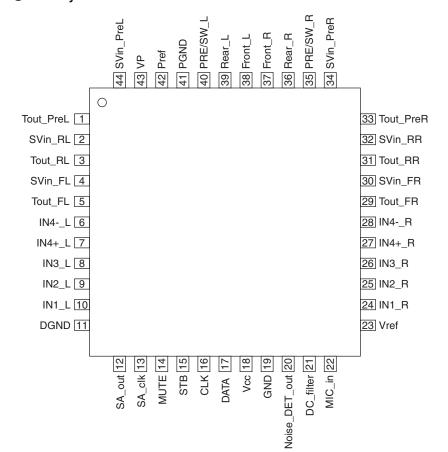


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# PML017A **● Pin Layout**



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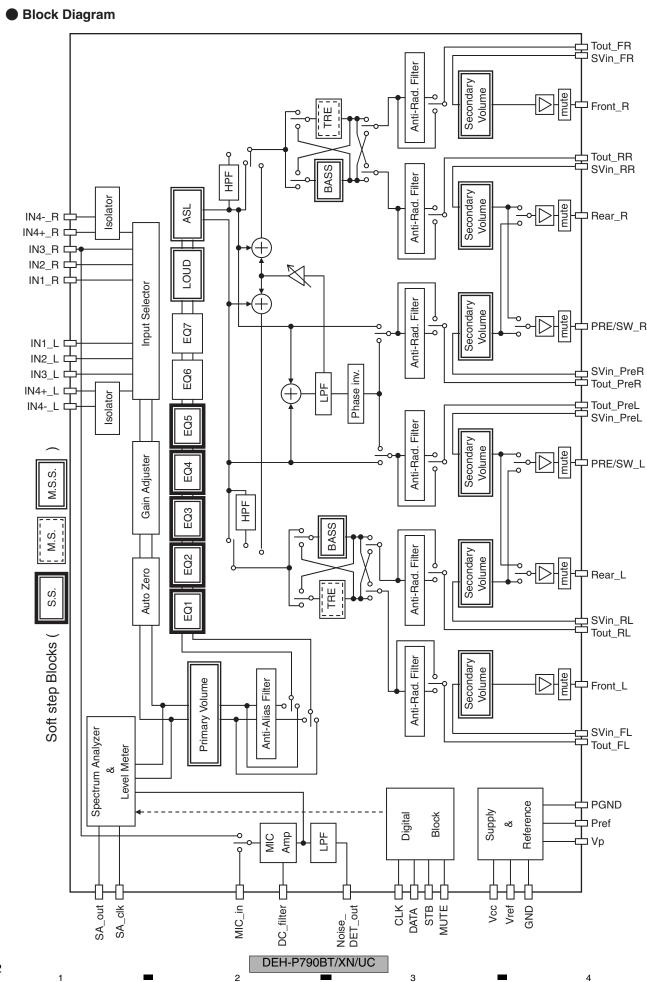
В

С

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Α

В

С

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■ Pin Functions (PEG330A)

	nctions (PEG330A)			
Pin No.	Pin Name	I/O	Format	
1	SYSPW	0	С	System power control output
2	KEYD/NC	1/		Wired remote control key input(UC)/Not used(ES)
3	MEMDO		С	External Memory : Data output
4	MEMDI			External Memory : Data input
5	MEMCK		С	External Memory : Clock output
6	BYTE	ı		External data bus width change input
7	CNVSS	i		Processor mode change input
8	TELIN	i	С	TEL mute input
9	PPOWER	0	C	Power supply control output
-	RESET	Ī		Reset input
	XOUT	0		Main clock output
12		- 0		GND
	VSS	!		
13	XIN	1		Main clock input
	VCC1	I		Power supply input
15	NMI	I		NMI input
16,17	NU			Not used
18	MEMCS	0	С	External memory : Chip select output
	MEMWP	0	С	External Memory : Write protect output
20	RXPOD			iPod data input
21	PID	0	С	Communication mode (UART) notification
22	TXPOD		С	iPod data output
23	BRST	0	С	P-BUS : Reset output
24	PEE2	0	С	Incoming BEEP sound output
25	BRXEN	I/O	С	P-BUS : Reception enable input/output
26	PEE	0	С	BEEP sound output
27	RX		N	IPBUS : Input
28	TX		N	IPBUS : Output
29	DPDT		С	OEL display microcomputer communication data output
	KYDT			OEL display microcomputer communication data input
31	PSENSG	ı		Connection sense input
32	BRSQ	ı		P-BUS : Service request input
33	BTTX	-	С	BT driver : Data output
34	BTRX		C	BT driver : Data input
35	PSENS	ı		Connection sense input
	ROT0	i		Rotary encoder pulse input 0
	ILMPW	0	С	Illumination power output
38	SWVDD	0	C	Display microcomputer chip enable output
	ROT1	ī		Rotary encoder pulse input 1
	FLPILM	0	С	Flap illumination output
				Output for clock adjustment
	PCL	0	C	
		0	C	OEL power supply control
	EVOLSW3	0	С	EVOL : Source select switch 3
	NC			Not used
	TUNPDI	I	1	TUNER : Data input(PLL)
47	TUNPDO	0	-	TUNER : Data output(PLL)
	TUNPCK	0	C	TUNER : Clock output(PLL)
	FLPPW	0	С	Flap motor power supply output
	FOPNSW	I	С	Flap open sense input
51	FCLSSW	I	С	Flap close sense input
52	FLPCLS	0	С	Flap close operation output
53	FLPOPN	0	С	Flap open operation output
54	DACCS	0	С	DAC : Chip select output
55	DACDT	0	С	DAC : Data output
	DACCK	0	С	DAC : Clock output

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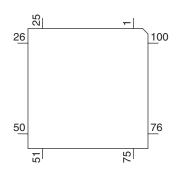
В

С

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Pin No.	Pin Name	I/O	Format	Function and Operation
58	SACLK	0	C	Level indicator clock output
	VDCONT	0	C	CD mechanism power supply output
59	VCC2	I	C	Power supply input
60	BTCTS	- 1		BT driver : CTS input
61				GND
62	VSS	I		
63	BTTEST	0		BT driver : Output for RF test
64	BTPW	0		BT driver : Power supply output
65	BTRST	0		BT driver : Reset output
66	BTMUTE	0	С	BT driver : Mute output
67	DALMON	0	С	For consumption current reduction output
68	BTRTS	0	С	BT driver : RTS output
69	TUNPCE2	0	С	TUNER : Chip enable output(EEPROM)
70	TUNPCE1	0	С	TUNER : Chip enable output(PLL)
71	ROMCS	0	С	ROM correction chip select output
72	ASENS	I		ACC sense input
73	BSENS	I		Backup sense input
74	ROMCK/EVOLSW1	0	С	ROM correction clock output/EVOL : Source select switch 1
75	ROMDATA/EVOLSW2	1/0 / 0	С	ROM correction data input/output / EVOL : Source select switch 2
76	VST	0	С	EVOL : Strobe output
77	VDT	0	С	EVOL : Data output
78	VCK	0	С	EVOL : Clock output
79	IPPW	0	С	IPBUS : Driver power supply control
80	ASENBO	0	С	IPBUS : Slave ACC sense output
81	ISENS	Ι		Illumination sense
82,83	MODEL1,0	I		Model select input
84	NU			Not used
85	MUTE	0	С	System mute output
86	TESTIN	Ī		Test program input
87	PVSENS			Short circuit sense
88	NC			Not used
89	KEYAD/NC			Wired remote control AD input(UC)/Not used(ES)
90	SAOUT			Level indicator input
91	DSENS			Detach sense input
92	CSRST	0	С	CD RESET output
93	NU			Not used
94	AVSS	ı		Analog GND
95	SL			Signal level input(Field intensity)
96	VREF	ı		Reference voltage input
97	AVCC	i		Analog power supply input
98	BSI/TESTDI	<u> </u>		P-BUS : Input/Test program : Data input
99	BSO/TESTDO		С	P-BUS : Output/Test program : Data output
100	BSCK/TESTCLK		C	P-BUS : Clock output/Test program : Data clock
100	DOON ILOTOLK	I		i 200 . Glook datpat/ foot program . Data Glook

# PEG330A



Format	Meaning
С	CMOS
N	Nch open drain

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● Pin Functions (PEG303A)

Pin No.	Pin Name	I/O	Format	Function and Operation
1	BTLED	0	С	Blue tooth authentication LED
2	ROMDT	I/O	C	ROM correction data input/output
3	ROMCK	0	C	ROM correction clock output
4	REM	i		Remote control input
5	ROMCS	0	С	ROM correction chip select output
6	BYTE	i		External data bus width change input(VSS)
7	CNVSS	1		Processor mode change input
8,9	NC	1		Not used
10	RESET	1		Reset input
11	XOUT	0		Clock output
12	VSS1			GND
13	XIN	I		Clock input
14	VCC1			Power supply input
15	NMI	l		NMI input
16	NC			Not used
17	KS3	0	С	Key strobe 3(Not used)
18-20	KS2-0	I/O	С	Key strobe 2-0
21	NC			Not used
22	DSEL	0	С	OEL driver : Display data select
23	NC			Not used
24	CKD	0	С	OEL driver : Data transfer and driver clock frequency
25	NC			Not used
26	LS	0	С	OEL driver : Line sync signal
27	DPDT	I	N	System controller communication : Display data input
28	KYDT	0	N	System controller communication : Key data output
29-32	NC			Not used
33	OELD	0	С	OEL driver : Display data
34	NC			Not used
35	CLK0	1	С	OEL driver : Clock input for UART0
36	NC	'		Not used
37	RDY	1	С	RDY signal input
38	NC	1		Not used
39	HOLD	1	С	HOLD signal input
		I	C	Not used
40-41	NC			
42	RD	0	С	Image ROM : Read strobe
43-45	NC			Not used
46,47	CS2,1	0	C	Image ROM : Bank address 1,0
48	CS0	0	C	External extended ROM chip select(image ROM)
49	A19	0	С	Image ROM : Address bus 19 bit
50		0	С	Non connection
51	A17	0	С	Image ROM : Address bus 17 bit
52		0	С	Image ROM : Address bus 16 bit
53	A15	0	С	Image ROM : Address bus 15 bit
54	A14	0	С	Image ROM : Address bus 14 bit
55	A13	0	С	Image ROM : Address bus 13 bit
56	A12	0	С	Image ROM : Address bus 12 bit
57	A11	0	C	Image ROM : Address bus 11 bit
58	A10	0	C	Image ROM : Address bus 10 bit
59		0	C	Image ROM : Address bus 9 bit
60				Power supply input
61	A8	0	С	Image ROM : Address bus 8 bit
62	VSS2			GND
63	A7	0	С	Image ROM : Address bus 7 bit
64	A6	0	С	Image ROM : Address bus 6 bit
65	A5	0	С	Image ROM : Address bus 5 bit

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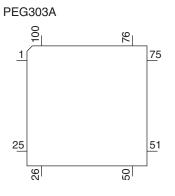
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Pin No.	Pin Name	I/O	Format	Function and Operation
66	A4	0	С	Image ROM : Address bus 4 bit
67	A3	0	С	Image ROM : Address bus 3 bit
68	A2	0	С	Image ROM : Address bus 2 bit
69	A1	0	С	Image ROM : Address bus 1 bit
70	A0	0	С	Non connection
71	D15	I	С	Image ROM : Data bus 15 bit
72	D14	I	С	Image ROM : Data bus 14 bit
73	D13	I	С	Image ROM : Data bus 13 bit
74	D12	I	С	Image ROM : Data bus 12 bit
75	D11	I	С	Image ROM : Data bus 11 bit
76	D10	I	С	Image ROM : Data bus 10 bit
77	D9	I	С	Image ROM : Data bus 9 bit
78	D8	I	С	Image ROM : Data bus 8 bit
79	D7	I	С	Image ROM : Data bus 7 bit
80	D6	I	С	Image ROM : Data bus 6 bit
81	D5	I	С	Image ROM : Data bus 5 bit
82	D4	I	С	Image ROM : Data bus 4 bit
83	D3	I	С	Image ROM : Data bus 3 bit
84	D2	I	С	Image ROM : Data bus 2 bit
85	D1	I	С	Image ROM : Data bus 1 bit
86	D0	I	С	Image ROM : Data bus 0 bit
87	NC			Not used
88	JOYST	I	С	Rotary commander AD input terminal
89,90	NC			Not used
91	KD3	0	С	Key data 3(Not used)
92,93	<u>KD2,</u> 1	I	С	Key data 2,1
94	AVSS			Analog GND
95	KD0	I	С	Key data 0
96	VREF	I		Reference voltage input
97	AVCC			Analog power supply input
98	DIM	0	С	Terminal for Dimmer control
99,100	NC			Not used



Format	Meaning
С	CMOS
N	Nch open drain

PD8	17	lΑ											_								
NC	A19	A8	A9	A10	A11	A12	A13	A14	A15	A16	BYTE	NSS	D15/A-	D7	D14	90	D13	D2	D12	D4	
4	43	42	41	40	33		37		32		33		31		53		27				23
				+																	

42 A8 42 A8 42 A8 44 A9 40 A10 40 A10 40 A10 40 A11 40
ddress input
D15/A-1: Data output/Address input A0 to A19: Address input D0 to D14: Data output CE: Chip Enable OE: Output Enable OE: Output Enable BYTE: Mode switch VCC: Power supply voltage VSS: GND
D 15/A-1: E D 15/A-1: E D 0 to A19: D D to D 14: C E: Chip E O E: Outpu BYTE: Moc VCC: Power VSS: GND NC: Non or C C Non or C Non
A 14

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PD8172A

● Pin Functions (PE5547A)

Pin No.	Pin Name	I/O	Format	Function and Operation
1	ROMDATA	I/O	/C	E2PROM : Data input/output
2	ROMCK	0	С	E2PROM : Clock output
3	ROMCS	0	С	E2PROM : Chip select output
4	NC	_		Not used
5	LOEJ	0	С	LOAD/EJECT direction switching output
6	DSCSNS	Ī		Disc sense input
7	8SNS	i		8 cm disc detection input
8	12SNS	ı		12 cm disc detection input
9	HOME	ı		HOME SW sense input
	TEMP	1		Temperature information sense input
10				VD power supply short circuit/earth fault sense input
11	VDSENS			
12	ADENA	0	С	A/D reference voltage supply control output
13	ADC.VDD			Power supply for A/D converter
14	ADC.GND			Ground for A/D converter
15	FLMD0	I		Flash writing control terminal
16	RESET	I		Internal microcomputer reset terminal
17	PULLDOWN	0	С	Pull-down Pull-down
18	NC			Not used
19	TESTIN	I		Chip check, test program start-up input
20	NC			Not used
21	BSI	I	N	P-BUS : Serial data input
22	BSO	0	N	P-BUS : Serial data output
23	BSCK	I/O	N	P-BUS : Serial clock input/output
24	FTxD	0	N	Tx for flash rewriting
25	FRxD	I		Rx for flash rewriting
26	BRXEN	I/O	/C	P-BUS : Reception enable input/output
27	BSRQ	I/O	/C	P-BUS : Service request input
28	NC	1/0	70	Not used
29	FMODE	ı		Flash self-rewriting mode start-up input
30	FLRQ	0	С	Flash self-rewriting riset voltage control
31				Open(EMPH)
	ROM	I		Not used
32-36	NC		N.I.	
37	MCKRQ	0	N	CLOCK request
38	LRCKOK	0	N	LRCK reference enable
39	PUEN	0	С	Pickup hologram power supply control output
40	CD3VON	0	С	CD + 3.3 V power supply control output
41	CONT	0	С	Servo driver power supply control output
42	VDCONT	0	С	VD power supply control output
43	CLCONT	0	С	CRG/LOAD-EJECT switching control output
44	CDMUTE	0	С	CD mute control output
45	TEST	I		Test terminal
46	BRST	I		P-BUS : Communication reset input
47	REGS			Capacitor connection for standby
48	C.VDD			Power supply for internal microcomputer
49	C.GND			Ground for internal microcomputer
50	XTAL	1		Connected to the crystal oscillator
51	X.GND	· ·		Ground for the crystal oscillator
52	XTAL	0		Connected to the crystal oscillator
53	X.VDD			Power supply for the crystal oscillator
				Power supply for DAC
54	DA.VDD			
55	LOUT	0		Output of audio for the left channel
56	DA.GND			Ground for DAC
57	REGC			Connected to the capacitor for band gap
58	DA.GND ROUT			Ground for DAC Output of audio for the right channel
59		0		

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Pin No.	Pin Name	I/O	Format	Function and Operation
60	DA.VDD			Power supply for DAC
61	D.GND			Ground for digital circuits
62	D.VDD			Power supply for digital circuits
63	REG16			Capacitor connection for 1.6 V regulator
64	LRCK	0	С	3-wire audio LR clock output
65	SCKO	0	С	3-wire audio serial I/F clock output
66	DOUT	0	С	3-wire audio serial I/F data output
67-69	SVMON0-2	I/O	/C	Servo monitor input/output 0-2
70	SVMON3	I/O	/C	Servo monitor input/output 3(Ext MCK IN)
71	C33M	0	С	DRAM CLOCK
72	(RCS)	0	С	DRAM CS
73	(CKE)	0	С	DRAM CKE output
74	RAS	0	С	Output of DRAM RAS
75	CASO(LDQM)	0	С	DRAM Lower CAS(LDQM) output
76	CAS1(UDQM)	0	С	DRAM Upper CAS(UDQM) output
77	WE	0	С	Output of DRAM WE
78	OE(CAS)	0	С	DRAM OE(CAS) output
79-94		I/O	/C	Input/output of DRAM data 0-15
95				Ground for I/O terminal
96				Power supply for I/O terminal
97-108		0	<u>C</u>	Output of DRAM address 0-11
109	FD	0	С	Output of focus drive PWM
110	TD	0	C	Output of tracking drive PWM
111	SD	0	С	Output of thread drive PWM
112	MD	0	С	Output of spindle drive PWM
113	EFM	0		Output of EFM signals Asymmetry input
114 115		0		Analog tests
116	ATEST A.VDD	0		Power supply for the analog system
117	A.GND			Ground for the analog system
118	RFI	1		Input of RF
119	AGCO	0		Output of RF
120	C3T	0		Connection to the capacitor for detecting 3T
121	AGCI	1		Input of AGC
122		0		Output of RF(AGC)
123,124	EQ2,1	ī		Equalizer 2, 1
125	RF2-	i		Reversal input of RF2
126		i		Reversal input of RF
127				Ground for the analog system
	A.VDD			Power supply for the analog system
129	Α	I		Input of A
130	В	I		Input of B
131	F	I		Input of F
132		I		Input of E
133	REFOUT	0		Output of reference voltage
134	FE-	I		Reversal input of FE
135	FEO	0		Output of FE
136	ADCIN	I		FE,TE A/D converter input
137	TE-	I		Reversal input of TE
138		0		Output of TE
139	TE2	0		TE2
140	TEC	I		TEC
141	LD	0		Output of LD
142		I		Input of PD
143				Power supply for servo ADC
144	AD.GND			Ground for servo ADC

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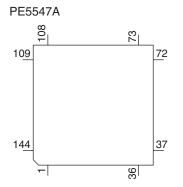
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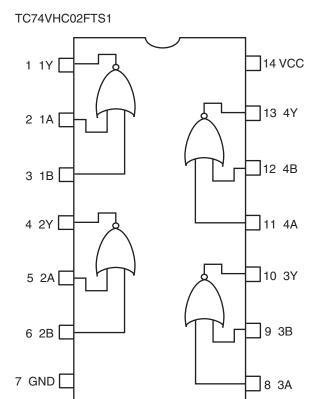


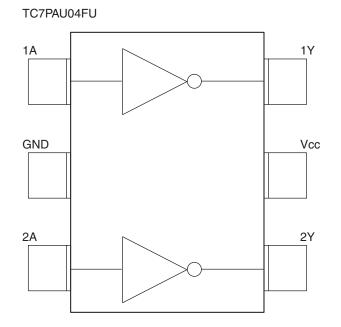
Format	Meaning
С	CMOS
N	Nch open drain

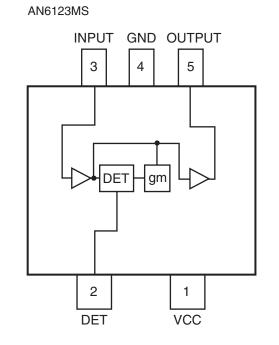
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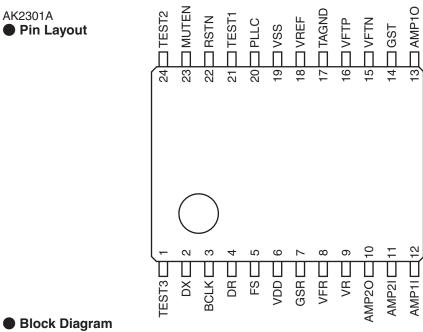
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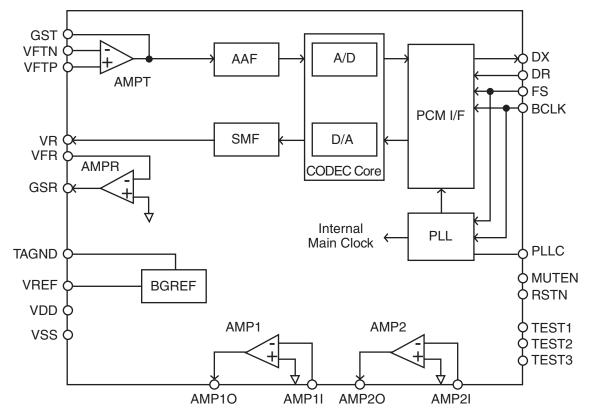


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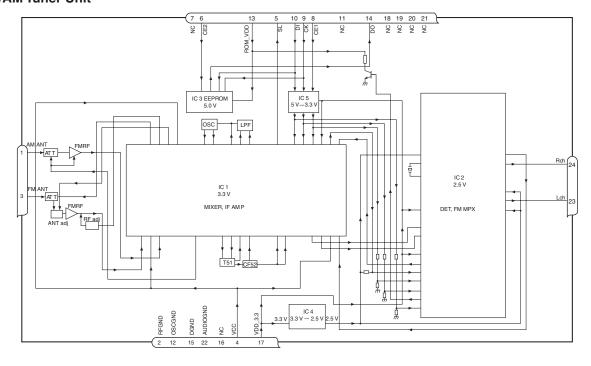
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# ● FM/AM Tuner Unit



No.	Symbol	I/O	Explain	
1	AMANT	- 1	AM antenna input	AM antenna input high impedance AMANT pin is connected with
				an all antenna by way of 4.7 µH. (LAU type inductor) A series circuit
				including an inductor and a resistor is connected with RF ground for
				the countermeasure against the hum of power transmission line.
2	RFGND		RF ground	Ground of antenna block
3	FMANT	ı	FM antenna input	Input of FM antenna 75 $\Omega$ Surge absorber (DSP-201M-S00B) is necessary.
4	VCC		power supply	The power supply for analog block. D.C 8.4 V $\pm$ 0.3 V
5	SL	0	signal level	Output of FM/AM signals level
6	CE2	ı	chip enable-2	Chip enable for EEPROM "Low" active
7	NC		non connection	Not used
8	CE1	- 1	chip enable-1	Chip enable for AF•RF "High" active
9	CK	- 1	clock	Clock
10	DI	I	data in	Data input
11	NC		non connection	Not used
12	OSCGND		osc ground	Ground of oscillator block
13	ROM_VDD		power supply	Power supply for EEPROM pin 13 is connected with a power supply of
				micro computer.
14	DO	0	data out	Data output
15	DGND		digital ground	Ground of digital block
16	NC		non connection	Not used
17	VDD_3.3		power supply	The power supply for digital block. 3.3 V ± 0.2 V
18	NC		non connection	Not used
19	NC		non connection	Not used
20	NC		non connection	Not used
21	NC		non connection	Not used
22	AUDIOGND		audio ground	Ground of audio block
23	L ch	0	L channel output	FM stereo "L-ch" signal output or AM audio output
24	R ch	0	R channel output	FM stereo "R-ch" signal output or AM audio output

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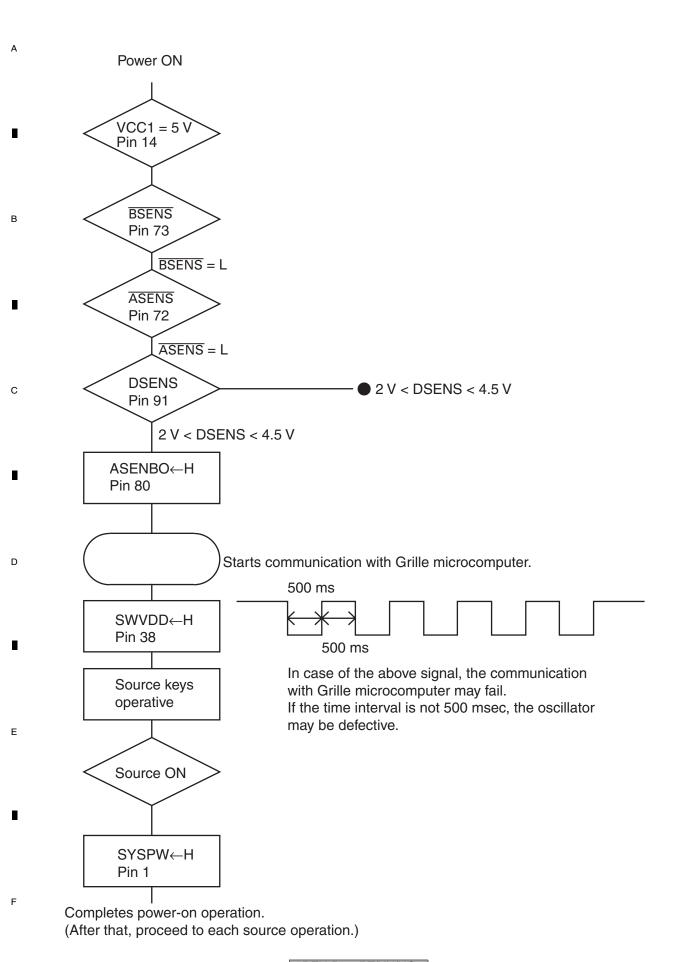
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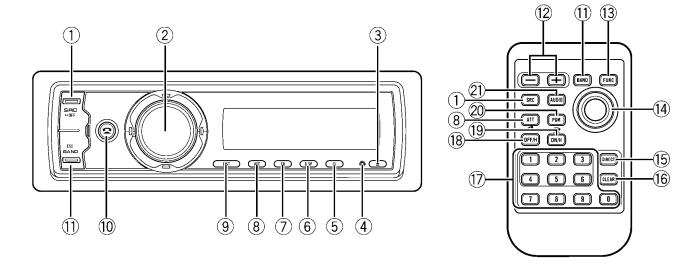
# 7.3 OPERATIONAL FLOW CHART



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# 8. OPERATIONS



# What's What

# **Head unit**

## 1 SOURCE button

This unit is turned on by selecting a source. Press to cycle through all the available sources.

# ② MULTI-CONTROL

Move to perform manual seek tuning, fast forward, reverse and track search controls. Also used for controlling functions.

Turn to increase or decrease the volume.

## **3** EJECT button

Press to eject a CD from your built-in CD player.

Press and hold to open or close the front panel.

#### **4** RESET button

Press to reset the microprocessor.

#### **(5)** CLOCK button

Press to change to the clock display. Press and hold to change the channel select mode when XM tuner or SIRIUS tuner is selected as the source. (Only UC)

#### 6 DISPLAY button

Press to select different displays.

# **⑦** EQ button

Press to select various equalizer curves.

#### 8 ATT button

Press to quickly lower the volume level, by about 90%. Press once more to return to the original volume level.

#### 9 LIST button

Press to display the disc title list, track title list, folder list, file list or preset channel list depending on the source.

#### **10 PHONE button**

Press to select the phone as the source. While operating a phone source, press to end a call, reject an incoming call or cancel making a call.

#### 11 BAND button

Press to select among three FM bands and one AM band and to cancel the control mode of functions.

#### Remote control

Operation is the same as when using the buttons on the head unit.

#### 12 VOLUME buttons

Press to increase or decrease the volume.

# **13 FUNCTION button**

Press to select functions.

# **14** Joystick

Move to perform manual seek tuning, fast forward, reverse and track search controls. Also used for controlling functions.

Functions are the same as

**MULTI-CONTROL** except for volume control.

Press to display the disc title list, track title list, folder list, file list or preset channel list depending on the source.

# **15 DIRECT button**

Press to directly select the desired track. While operating the phone source, press to directly enter a phone number.

#### 16 CLEAR button

Press to cancel the input number when **0** to **9** are used.

## ① 0 to 9 buttons

Press to directly select the desired track, preset tuning or disc. Buttons **1** to **6** can operate the preset tuning for the tuner or disc number search for the multi-CD player.

## **18 OFF HOOK button**

Press to start talking on the phone while operating a phone source.

#### (19) ON HOOK button

While operating the phone source, press to end a call or reject an incoming call.

#### 20 PGM button

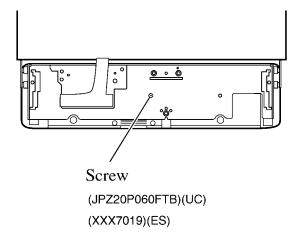
Press to operate the preprogrammed functions for each source.

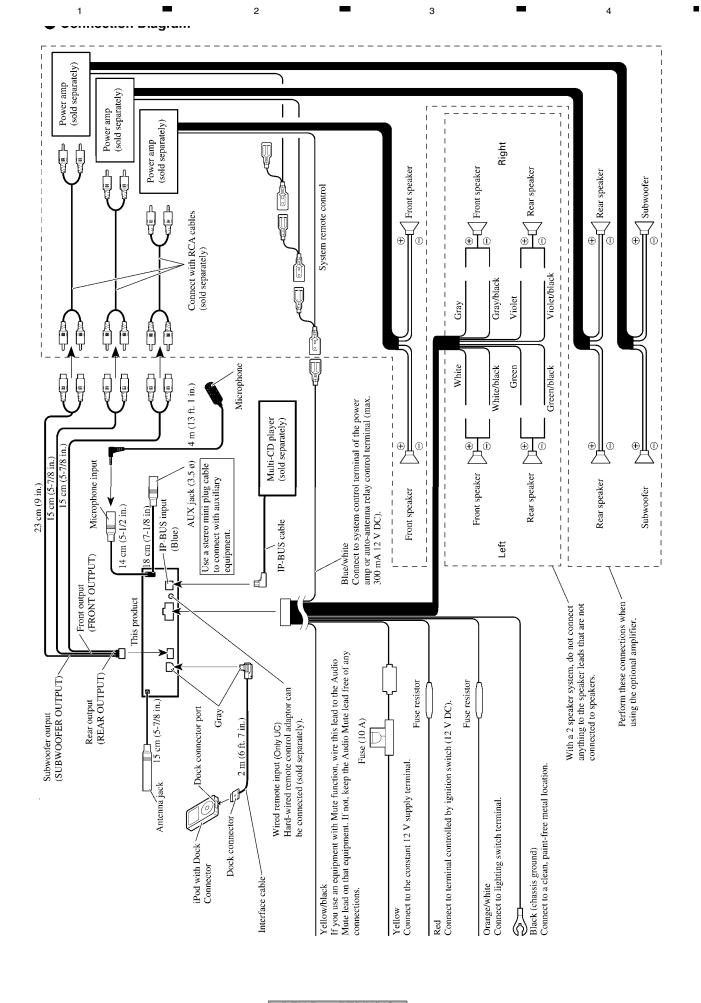
## 21 AUDIO button

Press to select various sound quality controls.

# **Fastening the front panel**

If you do not plan to detach the front panel, the front panel can be fastened with supplied screw.





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# Jigs List

Name	Jig No.	Remarks
Test Disc	TCD-782	Checking the grating
L.P.F.		Checking the grating (Two pieces)
	GGF1539	Removing the cord assy (BT antenna cable)

# Grease List

Name	Grease No.	Remarks	
Grease	GEM1024	Drive Unit, CD Mechanism Module	
Grease	GEM1045	CD Mechanism Module	
Grease	GEM1069	Drive Unit	

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Before shipping out the product, be sure to clean the following portions by using the prescribed cleaning tools:

Portions to be cleaned	Cleaning tools
CD pickup lenses	Cleaning liquid : GEM1004
	Cleaning paper : GED-008

Portions to be cleaned	Cleaning tools
Fans	Cleaning paper : GED-008

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